1755
N.V 16/2

281 Digges (L.) A Prognostication.....to judge the weather by the Sunne, Moone, Starres, Cometes, etc. **black letter,** *diagrams, imperfect, scarce, with all faults* 1556

S.T.C. 6861

Bosanquet 167

The most complete copy known

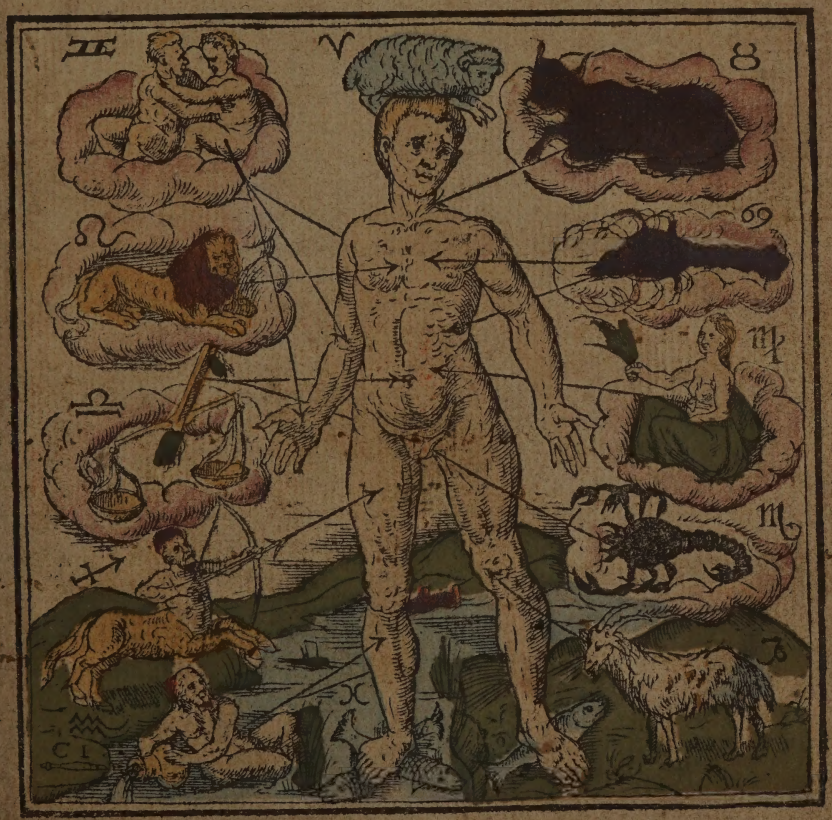
S/14/149

14.B 3142

A Prognostication

euerlasting of ryght good effecte, frutefully augmented by thauthor, cõteyning playne, brief, pleasant, those rules to iudge the weather, by the *Sunne, Moone, Sterres, Cometes, Raynbowe, Thunder, Clowdes,* with other extraordinarie tokens, not omitting the *Aspectes* of *Planetes,* with a briefe iudgement for euer of *Plentie, Lacke, Sickenes, Death, warres. &c.* opening also many *natural causes* woorthy to be knowen. To these and other nowe at the last are adioyned diuers generall pleasãt *Tables,* with many cõpendious rules, easy to be had in memorie, manifolde wayes profitable to al maner men of vnderstãding: once againe published by *Leonard Digges Gentleman,* in the yeare of our Lorde.

1556.



The seconde Impression augmented by the author in the yeare 1556. Agayne Imprynted by Thomas Gemini. &c.

To the ryght honorable Sir Edward Fines, of the noble order of the Garter Knight, Lorde Clinton and Saye, &c. Leonard Digges wysseth continuance of health, and dayly encreace of honour.

After my troubles (ryght honorable and my singular good lord) my dutie made me careful to procure, that some frute of my studies might declare me thankfully minded toward your Lordshyp among other honorable, to whome I owe my selfe with al my endeuour and frutes of study. For the performance whereof, not only your Lordshyppes talke moued of a *Prognostication* semed then to make that argumēt fittest, but also the manifest imperfections, & manyfolde errors yearely cōmitted did craue the ayde of some that were both willing and able to perfourme the truthe in like matters. As I thought it then for these causes worthy the labour, truely and briefly to collect many thynges both necessary and pleasant, as wel for Nobilite as other, and to adioyne them to my general *Prognostication* imprinted in the yeare 1553, augmenting diuerse wayes thesame, and more orderly placing suche as were before set furth: so sythens calling to minde other right pleasant rules and conclusions, lykewyse perteynyng to the purpose aforesayd, & bearyng still in mynde a lyke thankefull remembrance of your goodnesse, I thought it mete at this editiō to encrease it ones agayne, and by presenting it vnto your honour, declare the continuance of my ryght hearty zeale to acknowledge your goodnesse. As therfore in the other your Lordshyp receiued in one lytle boke by infallible rules taught for euer a truthe of such thynges as before were put forth in many volumes by other, eche for one yeares profit only, whereby the authors were of necessitie compelled to make a yearely renewyng of them with yearely encreace of errours: and further you had in it diuerse other conclusions generall of none before attempted: so in this your Lordshyp shall yet receyue the same in sundry places more playnly and fully set fourth, and other not vnprofitably adioyned, as in perusing shall euidently appeare. These with my moste humble thākes for your great goodnes all maner wayes declared towarde me, according to my dutie I do present vnto your honour, and beseche you in good worth to receaue: and haue willed them to passe vnder protection of your lordshippes name, that if to any man any commoditie shall ensue thereby, suche as receiue it may haue cause to further me in yeldyng thankes to your honour.

To the Reader.

TO auoyde (gentle Reader) the yearely care, trauailes, and paynes of other, with the confusiõs, repugnances, and manifolde errors, partly by negligence, and oft through ignorance committed: I haue agayn briefly set forth a *Prognosticatiõ generall*, for euer to take effect: adioinyng therto diuers profitable collectiõs, and many pleasant conclusions, easy of all willing ingenious to be perceyued. Here note (Reader) where as the *eleuate Pole*, & *Meridian* should be cõsidered, in this worke it is performed for London, bycause I wylle the this *Meridian*, *Situation*, or *Clime* the exacte truthe of thinges. If any yearely practises in like maters agree not with my calculations, be assured they are false, or at the least for other *Eleuations*, or *Meridians* supputated, and therfore litle seruing thy purpose. And that the late rude inuentions, and grosse deuises of some this yeare, and two yeares past, published might be of them perceyued, then filed, and so serue to some profit: I haue purposed euen now to put forth a boke named *Panauges*, wel seruing their turne, and so generally and moste exactly al Europe, pleasant, profitable to the learned, and no small delight to all maner men. An other booke is also al ready come to thy handes, titled *Tectonicon*, a treasure vnto the Masons, Carpenters, and Landmeaters, correcting their olde errors wrongfully reckened of them as infallible groundes, teaching faithfully, sufficiently, and very briefly, the true mensuration of all maner lande, tymbre, stone, bourde, glasse, &c. and at the ende conteining an *Instrument Geometrial* appointed to their vse. Take in good worth these labors (louing Reader) & loke shortly for the pleasant frutes *Mathematical*, euen suche as haue bene promysed by my frendes, and partly by me. Neyther shall my desire to profit here staye: but entendeth farther to procede, if these seme accepted. As the good wil of Printers not ha[illegible]th kept the foresaid from you: so I trust the wylling myndeand excellencie of Thomas Gemini shal bryng thẽ shortly vnto you. Certes my hope is, whyle life remaineth, not to be vnfruitfull to this cõmune wealth, with study, and practyse.

(.*.)

I Am diuerſly occaſioned (louing Reader) ſomewhat to wryte in the commendation of the *Mathematicals*: whiche neded not, but only to open the foliſh raſſhenes, and raſſhe foliſhenes of ſuch, which of late haue in wryting diſprayſed theſe goodly artes. It is an olde ſayd ſawe, and trewe: *Scientia non habet inimicum niſi ignorantem.* But to auoide tedioufnes, and chiefly for the more ſatiſfyng, I refer all of that ſorte, whiche haue taſted any learnyng (the reſt not regarded) to the firſt part of famous *Guido Bonatus de utilitate Aſtronomie in communi*: where he wryteth *contra illos, qui dicunt quod Scientia ſtellarum non poteſt ſciri ab aliquo: contra illos, qui dixerunt quod ſcientia ſtellarum non eſt utilis, ſed potius damnoſa &c. contra illos, qui contradicunt iudicijs Aſtronomie, & qui reprehendūt eam, neſcientes dignitatem eius, eo quod non eſt lucratiua.* Alſo for breuitie, I appointe all nyce diuines, or (as *Melancthon* termeth them) *Epicurei Theologi*, to his hie commendations touching *Aſtronomie*, vttered in his epiſtles to *Simon Grineus*, to *Honerus*, and to the peroration of *Cardanus* fyue bokes, where he ſheweth how far wyde thei alledge the ſcriptures againſt the *Aſtronomer*, whiche make wholy with the *Aſtronomer*. *Melancthon* wryteth and affirmeth, *Arrogantiam eſſe cum ſumma ſtultitia coniunctam: uenari choragium aliquod glorie ex inſectatione artium, que ſunt graui autoritate doctorum &c. prudentium recepte.* He called it *manifeſtum inſanie genus*, declaring *quod magis opus habent Medicis, quam Geometris*, aduiſing the lerned not to geue eare vnto their folye. *Sinamus (ait) ina cum Epicuro ineptire.* Whiche counſel lo, I folowe. Now therfore, ye enemies of al good doctrine, either geue an ouerthrowe, and that with your penne, or let famous *Guido*, or learned *Melancthon* ſatiſfie. If neither: certes I will ſhortly (God ſparyng lyfe) take ſome payne in publiſhyng the wonderfull vnknowen pleaſant profites of theſe diſprayſed hyghe knowleges, and by that meanes to enforce ſilence. Now in fewe, for thy encouragement in theſe, thus I ſaye and trewly, the ingenious learned, and well experienced circumſpect ſtudent *Mathematical* receiueth dayly in his witty practiſes more pleaſant ioye of mynde, then all thy goodes (how ryche ſo euer thou be) can at any tyme purchaſe. *Id tantum quod pulchrum eſt, quod purum eſt, quod diuinum eſt, nihil mortale ſapiens dulci ardore amplectitur. Vt multa paucis, crede mihi, extingui dulce erit Mathematicarum artium labore.* Nowe to ende, that learned *Guido*, that excellent *Guido Bonatus*, ſheweth what *Aſtrologi* or *Aſtronomie* is, and ought not ſayeth he, by any meane to be repre-

Vituperant, qui ſimpliciter eas ignorant.

hended, in that the moste wyse, yea, the holye fathers haue practised that science. He proueth it one of the chiefe sciences *Mathematical*, by the authoritie of the best learned, and by *Aristotle* in his *Posteriorum*. Howe commeth it to passe louing Reader, seyng it is a noble science, *et scientia est notitia uera conclusionum, quibus propter demõstrationem firmiter assentimur*, that it is counted vayne, and of so small strengthe, the secret truthes and moste pleasant profites therein not desired, yea vtterly despised and of some busy byghting bodies reiected as very lies? Let no man doubt ignorauncie, the great enemie of all pure learning hath wrought this. *Nam incertam uocat hanc artem uulgus, propter errores non arti, sed hominum indoctissimorum inscitie, & temeritati imputandos, qui citra delectum omnia effutiunt.* Thus I leaue indigestly farther to trouble: fauour me as I tender the furtheraunce of good learninges, profitable to a common wealth. Fare moste hartely well, vnfayned good Christian Reader.

Stulti negligũt & contemnit: qui contradicit ambitiosus est. qui maledicit, fatuus.

FRom the nert side to the fifth leafe are conteined the formes of a *Quadrant*, *Square*, *Circle*, *Quantities*, with a figure truly placing the sayd *Quantities* in the *heauen*.

From the 5 to the 13 ye haue the iudgement of weathers by the *Sunne*, *Mone*, *Sterres*, *Cometes*, *Raynbow*, *Thunder*, *Cloudes*, with extraordinarie tokēs & aspectes of *Planetes* &c.

The 13, 14, 15 and 16 leaf shewe the causes of suche alteration according to *Aristotel*, first of the *Raynbow*, then *Rayne*, *Frost*, *Dew*, *Snowe*, *Haile*, *VVyndes*, *Earthquakes*, *Thundres*, *Lyghtninges*, *Cometes*, *Sunne* and *Moone* eclipsed, *Quantities* of the *Planetes*, and their placing ocularly demonstrated.

The 17, thaspectes of the *Moone*, and her signification in the 12 celestiall *Signes*.

The 18, 19 and 20, what *Signe* the *Moone* is in and shalbe for euer, the mete tyme to *let bloud*, to *Purge*, to *Bathe*, to *fall Tymber*, to *Sowe*, to *Plante*, to *Graffe*, *Cut*, *Gelde* &c.

The 20 & 21 haue *Tables* for the *Sonday letter*, for the *Golden numbre* or *Prime*, for the *Epact* and *Mouable feastes*, many wayes conducing.

The 22, 23 and 24, the age of the *Moone*, the chaūge and quarters for euer ar declared, the *Ebbing* and *Flowynges*, the breake of the *Dade*, the *Sunne ryſyng*, the length of the *Day* and *Nyght*, the *Twylight* for all the yeare.

The 25, 26, and 27, shew eracte pleasant wayes for the daye and nyght houre, with composition of mete *Instrumentes*.

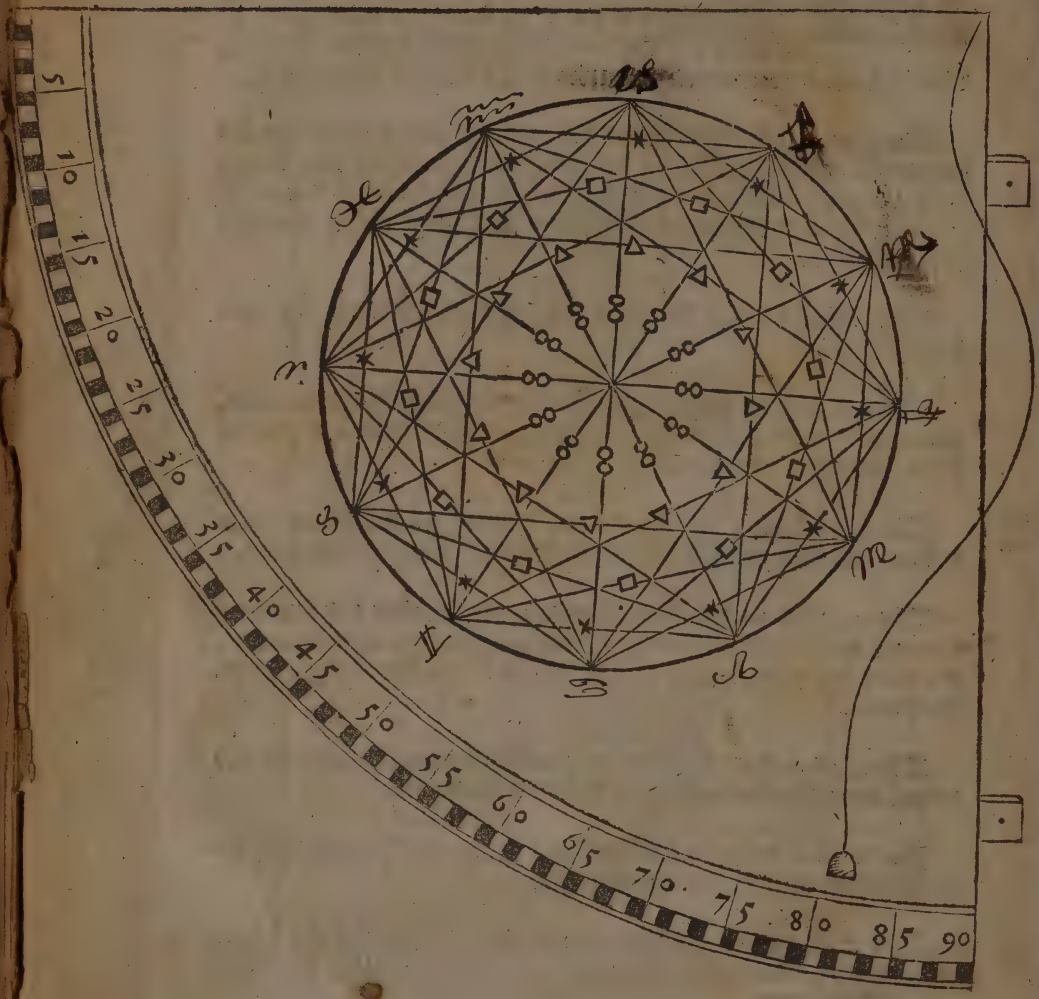
From the 29 to the 34 leafe, ye haue the *Peculiar Kalendar*, very cōmodious for the day and nyght houre.

The 35, 36, and 37, declare the infortunate dayes of the whole yeare with a *Kalendar General*, and *Tables* as generall for the chiefe *Fayres* of England.

The 38, 39, and 40, conteine pleasant *Tables* for the heyght of the *Sunne* at all houres, for ryght and squire *Shadowe*, conducing also to the composition of many *Instrumentes*. &c.

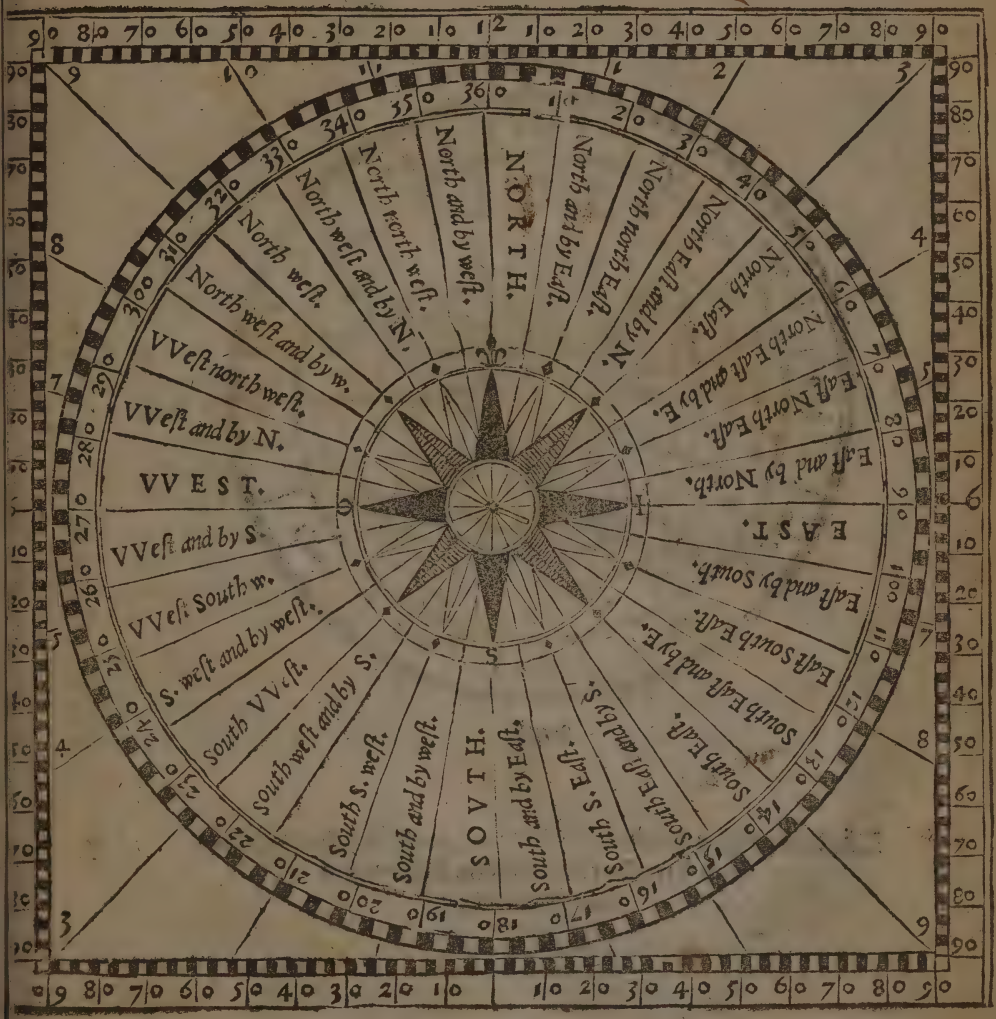
The 40 and 41 leaf, *Collections* easy to be had in memorie.

This *Quadrant* is apointed here to get exactly the lẽgth of *Staffe* and *Squire* shadowe, howe vnleuell soeuer the grounde be, as I haue sufficiently instructed in the 38. leafe.



If ye lyst not to make a *Quadrante*, yẽ may vse this very wel: adding a plumbmet and lyne, with sightes or otherwyse.

This *Instrument* must be made in a playne fine metall plate, a foote or more square. Then it is pleasant for the houre of the daye and nyght, either to be fixed about your house, or moueable if ye lyst, by a Nedle to be placed where and when ye wyl.
The 26 leafe sheweth the making.

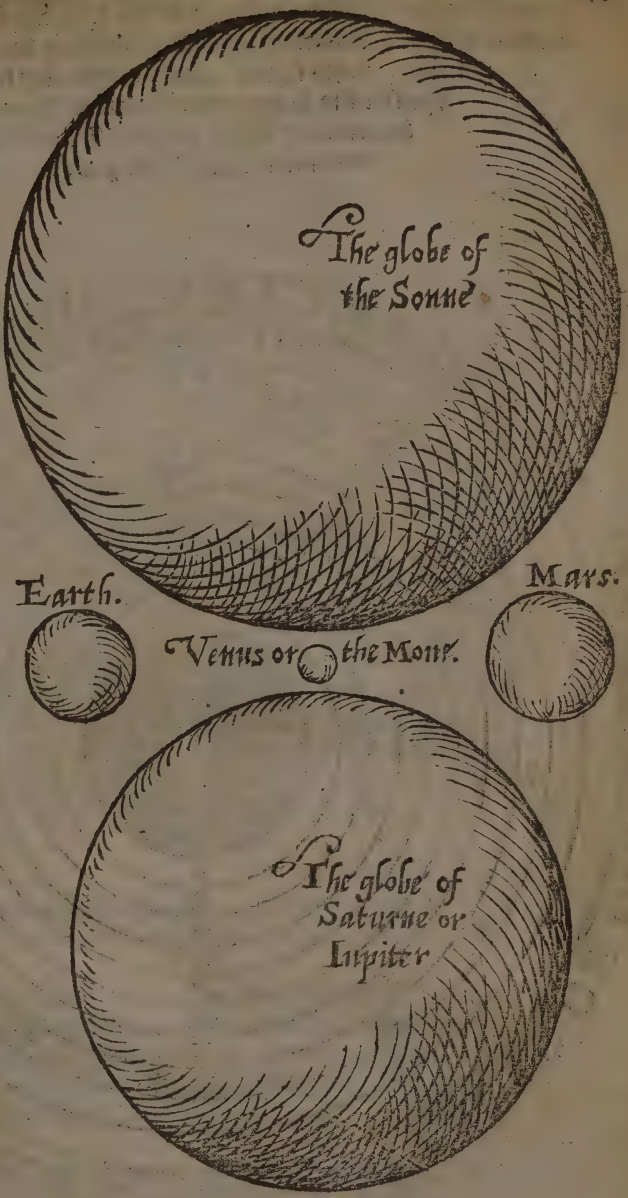


The good Maryner may long for the vse of this *Instrument*: it serueth marueloussly his tourne. A. iij.

Or thus, without the *Square* this *Circle* will serue well your purpose, beyng exactly made, and truely placed.

The diameter or breadth of this *Circle*, must be a foote or more, so is it moste commodious to serue his vse declared.

I haue placed ready to be conceiued euen here at the eye the true *Quantities* or *magnitudes* of the 7 *Planetes*, the one to thother, and euery one to the earth: whiche may satisfie them that scorned my laste publyshyng, where I declared the *Globe* of ỹ *Sunne* to conteine ỹ *Globe* of the *Moone* 7000 tymes. I would they were able to conceiue *demonstration* made: then the truthe more euidently appearing, would pull scornynges away.



I thought it mete also to put here this figure shewing the placing, compassing, and distances of eche of the forsayd *Planetes* in the heauen: whiche distances at my last publyshing were thought impossible. This figure wittily wayed may confirme a possibilitie to agree vnto the true *Quantities* immediatly before put fourth, therfore not omitted here to be placed.

HOVVE TO IVDGE VVEATHER by the Sunne rysing or goyng downe.

by the Sunn rysing or goyng Down

THe Sunne in the Horizon, or rysynge, cleare and bright, sheweth a pleasant day: but thinly ouercast with a cloude, betokeneth fowle weather. Also at the going doune the body diuerse coloured or redde, & aboute dispersed with lyke cloudes, the beames redde, & of lengthe, pronounce gret windes, the nert day frō that part. Blacknes in the Sunne or Moone, betokeneth water, Read, signifieth winde. *De obseruandis meteoris.*

The elemēt redde in the euening, the nert day fayre, but in the morning redde, wynde and rayne. Also the Sunne beames spottid, grene, pale, or black, gathered to a cloude, signifieth raine. Further the Sunne at the setting playnly seene without any cloude, declareth a fayre nyght to ensue. Here note, Ptolome willeth vs diligentlye to obserue the circle, or circles about the Sunne. If it be cleare, and the circle of no continuaunce, beholde fayre weather: If many of thē, wynde. Wyndes more vehemente are signified, if that the circles be somewhat redde, here & there broken: but these obscured, thicke, and blacke, looke for colde, wynde, and snowe. What is spoken of the Sunne, touching the circles, thesame is ment of the Moone.

Note here that greater wyndes chaunce in the daye, then in the nyght. *Note.*

Howe weather is declared by the coloure of the Moone, and by the nature of the Signe wherein she is.

IF the Moone in the thirde of her chaunge, yea thre daies before the ful, or in the middes of the quarter, be founde of pure light, nothyng compassing her, the ende direct vp, she promiseth fayre weather, but bent to red colour, prouoketh winde. The Moone pale or somewhat inclined to blacke, obscure or thicke, threatneth raine. *Luna rubens ventat, pallor pluit, Alba serenat.*

Also by the nature of the signe, weather may be iudged, thus, according to Stesterinus, Monte regius, Leupoldus, and famous Guido Bonatus, with others well trauayled in the mutacions of ayer.

♈ ♌ ♐ hote.

♉ ♍ ♑ earthy.

♊ ♎ ♒ wyndy.

♋ ♏ ♓ watry.

COnsider the nature of the Signe where the *Moone* is, at the chaũge, quarter, & ful. If she be in hote & drie Signes, as *Aries*, *Leo*, *Sagittarius*, in Wynter a good token of faire weather: In Sommer, a great signification of immoderate Heate: If in earthy, colde and drie Signes, as *Taurus*, *Virgo*, and *Capricornus*, in Wynter iudge Colde, Frost, and Snowe to ensue: But in Sommer temperate Weather. In aery and wyndy Signes, as *Gemini*, *Libra*, and *Aquarius*, muche wynde. If in Watry Colde and Moyste Signes, as *Cancer*, *Scorpius*, and *Pisces*, in Winter wet Weather: In Sommer a pleasant temperature.

ALso, the *Sunne* in *Aquarie*: the *Moone* at the chaũge there, or in *Sagittarie*, or at ỹ ful in *Leone*: betokeneth raine. The *Sunne* in *Pis.* or in *Aries*: the *Mone*, in *Virgo*, *Libra*, or *Sagittarie*: signifieth rayne, especially in watry dwellynges. The *Moone* in *Aqua.* or *Pis.* looke for chaunge of weather: then chiefly she troubleth the ayre. The *Moone* also at the chaunge, or rather at the full, in *Aries*, *Libra*, *Scorpius*, or *Pisces*, tempestuous weather foloweth. The *Sunne* in *Aquari*, in *Aries*, *Libra* or *Scorpio*, but chiefly in *Leone*: the *Moone* then at the full, and that after rayne or mislinges, loke for lyghtening, thundryng. &c. Also the *Sunne* or *Moone*, founde in *Pisces*, without all helpe of *Mars*, it betokeneth aboundaunce of rayne, lyghtning, thunder. &c. To conclude the *Moone*, in *Cancer*, *Leo*, *Capricornus*, or *Aquarius*, ayded with anye aspecte, but chiefly with the opposition or quadrate of *Venus*, rayne foloweth.

The iudgement of weather by sterres.

Cum maiora apparent, tum enim Humore medius crassescit aer.

BEholde the Sterres whose magnitude you knowe best. If they appeare of much light, in bignes great, more blasing then they are commonly, it betokeneth great wynde or moysture in that parte where they shew: in winter, colde & frost. When sterres seme to runne in the Element, it sheweth wynde. Affirme also alteratiõ of weather if they be fewe in nũbre, cloudie, & of litle light. Further when dimme sterres appeare with long firie tailes iudge wyndes, and great drought: the more in numbre, the greater effect. When sterres in the night (as it is sayde) shote, or seme to fall, it argueth wynde in that part. If in diuers places, inordinate wyndes: if in all places, then pronounce wyndes, thunder, lyghtenynges, yea weather moste tempestuous.

The

The Signification of Cometes.

COmetes signifie corruption of the ayre. They are Signes of Earthquakes, of Warres, chaungyng of Kyngdomes, great dearthe of Corne, yea a common death of Man, and Beast. *Pontanus sic scribens: Ventorum quoque certa dabunt tibi signa Cometae: Illi etiam belli motus, feraque arma minantur, Magnorum & clades populorum, & funera regum aquarum significat penuriam.*

De cometarū prodigiis, lege Cardanū lib. 4. Fol. 83. et Antoniū Mizaldum de Cometographia.

Howe by the cloudes chaunge of weather is perceiued.

IF thycke cloudes resemblyng flockes, or rather great heapes of wol, be gathered in many places, they shewe rayne. Also when grosse, thicke, darke clowdes, ryght ouer the North parte, or somewhat declynyng to the West, are close with the earth, immediatly foloweth rayne. If they appeare lyke Hylles, somedeale from the earth, a good token of weather ouerpassed. Blacke clowdes, signifie rayne: Whyte clowdes appearyng in Wynter, at the *Horizon*, two or thre dayes together, prognosticate colde, and showe.

Of the rayne bowe and his effecte, touching alteration of ayre.

IF in the morning the *Raynebowe* appeare, it signifieth moysture, onles great droughthe of ayre worke the contrarie. If in the euenyng it shewe it selfe, fayre weather ensueth: so that aboundaunt moyste ayre take not away the effect.

Arcus nisi sole aduerso non fiunt.

Or thus.

THE Raynebowe appearing, if it bee fayre, it betokeneth fowle Weather: if fowle, loke for fayre weather. The Greener, the more rayne: Redder, wynde.

Non apparet nisi cum Vapores rarificantur, uel inspissantur.

Of Thunders: what they Signifie.

Signum futurorum bellorū.

THunders in the morning, signifie Wynde: About Noone, rayne: In the euening, great tempest.

Somme wryte (their ground I see not) that Sondayes Thundre, shoulde brynge the death of learned men, Iudges & others: Mondayes Thondre, the death of women: Tuesdayes Thundre, plentie of grayne: VVednesdayes Thundre, the deathe of Harlottes, & other bloodshede: Thursdayes Thundre, plentie of Shepe, and Corne: Frydaies Thundre, the slaughter of a great Man, and other horrible murders: Saturdayes Thundre, a generall pestilent plage and great deathe.

Howe weather is knowen after the chaunge of euery Moone by the prime daye.

SUndaye prime, drie weather. Mondaye prime, moist weather. Tuesday prime, colde and wyndy. Wednesdaie prime, wonderfull. Thursdaies prime, fayer & cleare. Frydaies prime, myrte weather. Saterday prime, moyst weather.

Nowe ensueth extraordinarie tokens for the knowledge of weather.

Commune tokens of weather, mete for all maner wittes.

SOme haue obserued euil Weather to folow, whan watry Fowles leaue the Sea, desiring lande: the Foules of the lande flying hyghe: the Crying of fowles about Waters making a great noyse with their wynges: Also the Sees swellyng with vncustomed waues: If beastes eate gredely: If they lycke their hooues: If they sodaynlye moue here and there making a noyse, brethyng vp to the ayre with open nostrels: rayne foloweth. Also the busy heuing of Moules, the appering or cõming out of Wormes: Hennes resorting to the perche or rest couered with dust, declare rayne. The Ample worknig of the Spinnar in the ayre: the Ant busied with her egges: the Bees in fayre weather not farre wandryng: the continuall pratyng of the Crowe, chiefly

twyse

tlwyse or thryse quycke calling, shew tempest. Whan the Crowe or rauen gapeth against the Sunne, in Sommer heate soloweth. If they busy theselfes in proyning or washyng, and that in Wynter, loke for raine. The vncustomed noise of pultry, the noise of Swine of Pecokes declare thesame. The Swalowe flying and beating the water, the chirping of the Sparow in the morning, signifie rayne. Raine sodainly dried vp, Woody couerings strayter then of custome: Belles harde further then commonly, the wallowyng of Dogges, the alteratiō of the Cocke crowyng, al declare rainy weather. I leaue these, wanting the good grounde of the rest. If the learned be desyrefull of the to forsayd, let them reade graue Virgil *primo Georgicorum* At Bor; &c.

There be a multitude of other not extraordinarie, but of the best knowē causes: many for breuitie here omitted, the moare part not mencioned, because they passe the capacitie of the common sorte, vpon all the whiche the *Astronomer* doth well & learnedly conclude. I doubte not, there be also sometyme vnknowen maters, mittigating the aforesayde, or prouoking tempest vnloked for, whiche neyther experience, ne learning, hath stablyshed. Howe vnkynde (these considered) yea howe farre from worthy thankesgeuing are they, whiche in generall heddely do blame checkyng bitterly the *Astrologer*, with these Judiciarie matters, (the least part among a numbre of his moste certayne doynges) whan thynges fortune contrary to expectation? Understande gentle reader: the consent of a multitude famously learned is their Buckelar, euen in these matters iudiciari: Who haue wayed a longe tyme prudently, the greate strength, the vehement force, and marueylous natures, of all erraticall and celestiall constellacions, with their *Angles, Radiations, Aspectes, affections, Stationes, Progressions, Defections, Dispositions, Applications, Preuentions, Refrenations, Contrarieties, Abscisions, Coniunctiōs Quadratures*, and *Oppositions. &c.* Therfore extreme foly, yea more then madnes doth he vtter, which imbraideth or backbiteth these knowledges, not remembring the great, and manifolde benefites had through them, & that with moste certaintie in all other doynges.

What *Meteoroscoper*, yea who learned in matters *Astronomicall* noteth not the great effectes at the rising of the starre called the *Little dogge*? Treuly the consent of the best learned doo agree of his force: yea *Plinie*, in his History of nature affirmeth the sees thē moste fiers, Wines to sowr in cellars, Standig waters to moue, Dogges inclined to madnes, then moste wood. Farther these constellacios, *Canis minoris efficatia.*

Orionis, Arcturi, Coronae, Capre, Succularum effectus.

Orion, Arcturus, Corona, rising prouoke tempestuous weather. The Kyd & Goate, wyndes. Hyades or Succule rayne. What Meteorologer cõsenteth not to the great alteration and mutation of ayre at the cõiunction oppositiõ, or quadrate aspect of Saturne, with eyther twoo lyghtes? Who is ignorant, yea menely trauayled in Astronomie that Iupiter with Mercurie, or with the Sunne, inforceth rage of wyndes? What is he that perceiueth not the fearefull thũders, lyghtninges and raynes, at the meting of Mars & Venus, or Iuppiter and Mars. &c. Leaue for shame to impugne these iudicialles strongly authorised.

☌ □, & ☍, ♄ cum ☉ aut ☽.

He that any other part carpith may seme more then madde. All truthe, all experience, a multitude of infallible grounded rules are against hym. *Certum est omnibus que notum, quod coeli motus, signorum ortus, & occasus, planetarum aspectus, & cõiunctiones, luminariũ eclipses, &c. Certissimam, determinatam, ac infallibilem habent causam. Quis iam sane mentis negabit eorum effectus sepe innotescere, ut pote bella, fames, grandines, aeris perturbationes, elementorũ commotiones, terre motus, & similia?*

Positis causis naturalibus, & non impeditis, sequitur effectus.

☌ ♃ □ & ☍. cum ☿ aut cũ ☉ &c.

The learnedthat liketh ingeniously to prognosticate of weather will not only discretely waye all before wrytten, but consyder also with them the *Aspectes of the Planetes* folowyng and their *Combustion in the. 12. Signes, with the Coniunctions* of fired Sterres *Mansions*, of the *Moone, Ascendent, Climes, &c.* Also the *tymes or quarters of the yeare* must be noted diligently, (as insueth) and iudgement accordingly pronounced.

Of the yeare deuided in foure quarters.

♈ ♉ ♊ *Power of the brest.*

THE *Springtyme* is hote and moyste: and continueth so long as the *Sunne* is in *Aries, Taurus* and *Gemini*: which is from the tenth of *Marche* vnto the twelfthe of *Iune*. The Somer is Hoote and Drye, coumpted from the beginning of *Cancer*, to the ende of *Virgo*, that is from the twelthe of *Iune*, to the fourtenth of *September*. Harueſt is coolde and drie: that is from the beginning of *Libra*, vntd the ende of *Sagittarie*: coumpted from the fortene of *September* to the thirtene of *Nouembre*. Wynter is colde and moyste: continued from the beginning of *Capricornus*, to the ende of *Pisces*: that is frõ the twelth of *December*, to the tenth of *Marche*.

♎ ♏ ♐ ♑ ♒ ♓ *Power ouer all Flumes.*

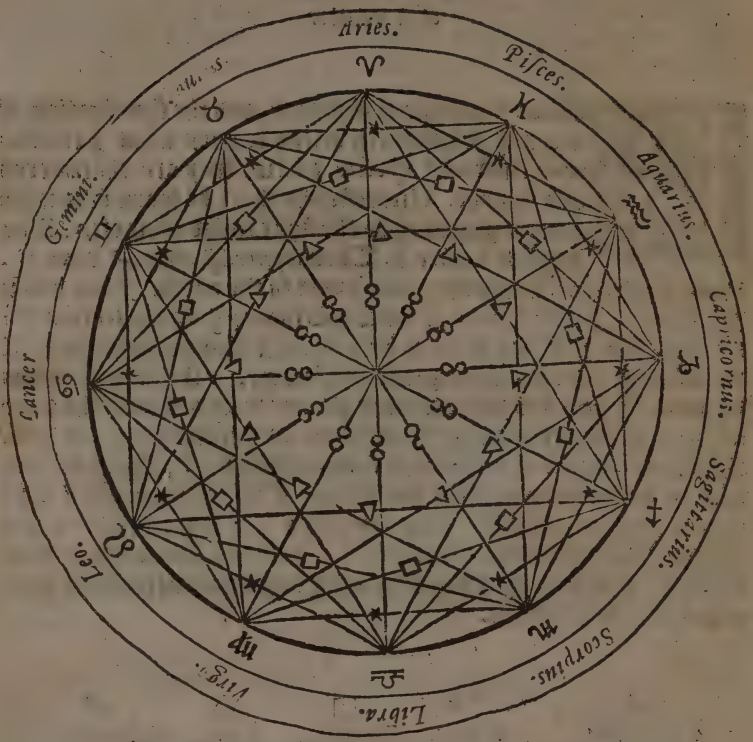
Nowe

Nowe folowe the aspectes of the Planetes for the better iudgement of VVeather

BEfore I declare of planetes, and the signification of aspectes, it behoueth briefly to open what I call *Planetes*, and *what aspectes*, & howe they are charactered and figured. Understande there be seuen moueable sterres pleasaunt to the sight, called Planetes. The hyghest *Saturne*. ♄. Then *Iupiter*. ♃. *Mars*. ♂. *Sunne*. ☉. *Venus*. ♀. *Mercurie*. ☿. and the *Moone* ☽ nert to the earth. Now when I desire to expresse *Saturne*, I write this figure ♄: for *Iupiter* this ♃: for *Mars* this ♂. Thus of the others as their characters declare. At *Radiations* or *Aspectes* are expressed as folowe. A *Coniunction* thus figured ☌: And it is, whē an other Planet is ioyned with the *Sunne* or *Moone*, or others amonge themselues, within one degree or lesse. The *Sextile Aspect* or *Radiation*, is thus expressed ⚹: And it is within. 60. degrees thone from the other. The *Quadrate aspect*, thus □: 90. degrees distant. The *Trine* thus △: seperated. 120. degrees. The *Opposition*, thus ☍: 180. degrees, thone distāt from thother. Loe here they folow in order: the characters of the Planetes: and Signes also.

☌	⚹	□	△	☍	
Coniunction,	*Sextile*,	*Quadrat*,	*Trine*,	*Opposition*,	
♄	♃	♂	☉	♀	☿	☽
Saturne,	*Iupiter*,	*Mars*	*Sunne*,	*Venus*,	*Mercurie*	*Moone*,
♈	♉	♊	♋	♌	♍	
Aries	*Taurus*	*Gemini*	*Cancer*	*Leo*	*Virgo*	
♎	♏	♐	♑	♒	♓	
Libra	*Scorpius*	*Sagittarius*	*Capricornus*	*Aquarius*	*Pisces*	

Yet for more playnelle beholde this figure.



The signification of aspectes of Planetes amonge themselues: for the iudgement of weather.

♄ ☌, cum ♃

THe coniunction or meting of Saturne with Iupiter, in fierie Signes, inforceth great drought: In Watry Signes, Fluddes, continuall Rayne, generall ouerflowynges. &c. In Aery Signes, plenty of Wyndes.

♄ □ ✶, & ☍, cum ♃

The Quadrature, Sextile, or Oppolition of Saturne, with Iupiter, in moyst Signes causeth troubled Ayre, by Hayle, Wynde, Rayne, Thunder. &c. before and after.

The con-

The coniunction, Quadrature, or opposition of Saturne with Mars, in watry Signes, declare in Sommer rayne, often shoures, with hayle, thunder and lyghtening. ♄ ☌ □, ☍ ☍ cum ♂

The coniunction, quadrature or opposition of Saturne with the Sunne, chiefly in colde Signes, shew darke weather, haile, rayne, thunder, and colde dayes. ♄ ☌ ☍, ☍ ☍, cum ☉

The coniunctiõ, quadrature, or opposition of Saturne with Venus, in wynter, engẽdre colde and rayne, principally in moyst Signes: in Summer, mitigation of heate. ♄, ☌ □, ☍ ☍ cum, ♀

The coniunction, quadrature, or oppositiõ of Saturne with Mercuri, in watry Signes, bring raine: in hote or drie Signes, drought: in Summer, thunder, lyghtnynges, and tempest. ♄ ☌ , □ ☍ ☍ cum ☿

The coniunction, quadrature, or oppositiõ of Iuppiter with Mars, in moyst Signes, declare thunders, lyghtninges, & rayne: in wynter, snowe, or cloudie thycke weather. ♃ ☌ □, ☍ ☍, cum ♂

The coniunction, quadrature, or opposition of Iuppiter with the Sunne, great and moste vehement wyndes. ♃ ☌ , □ ☍ ☍, cum ☉

The coniunction, quadrature, or opposition of Iuppiter with Venus, in moyste Signes, colde and mistynges: in the rest signes, fayre weather. ♃ ☌ , □ ☍ ☍, cum ♀

The coniunction, quadrature or opposition of Iupiter with Mercurie, great wyndes. ♃ ☌ □ ☍ ☍, cum ☿

The coniunction, quadrature. or oppositiõ of Mars with the Sunne in firie Signes, drought: in watry, thunder, and rayne. ♂ ☌ , □ ☍ ☍, cum ☉

The coniunction, quadrature, or opposition of Mars, with Venus, in moyste Signes, rayne and tempest. ♂ ☌ , □ ☍ ☍, cum ♀

The coniunction, quadrature or opposition of Mars with Mercurie in hote Signes, great heate: in drie Signes, drought: in watry, raine: sometimes thũders, lightninges, with sodain fierce wyndes. ♂ ☌ □ ☍ ☍, cum ☿

The coniunction, quadrature or opposition of Venus with Mercurie, causeth rayne: in Somer they prouoke tẽpest, the more if they agre in watry Signes. Note what is sayd of the coniunction, quadrature ♀ ☌ □ ☍ ☍, cum ☿

drature or oppositiõ, the same is also ment of the Sextile ✶ Trine: but they are of lesse signification: so the lerned noteth.

A declaration of weather by aspectes of the Moone with Planetes.

☽ ☌ □ ☍ ☌, *cum* ♄

THE Coniunction, Quadrature or Oppositiõ of the *Moone* with *Saturne*, in moyste Signes, bryngeth a cloudy daye, colde ayre, according to the nature of the Signe: If she goo from *Saturne*, to the *Sunne*, by coniunction or otherwyse, harder weather ensueth.

☽ ☌ □ ☍ ☌, *cum* ♃

The Coniunction, Quadrature or Oppositiõ of the *Moone* with *Iupiter* in *Aries* or *Scorpio*, sheweth fayre weather, White dispersed cloudes.

☽ ☌ □ ☍ ☌ *cum* ♂

The Coniunction, Quadrature or Oppositiõ of the *Moone* with *Mars* in watry Signes, rayne: In hoote Signes, diuers coloured cloudes are made, all the element ouer: In Sommer, often thunder.

☽ ☌ □ ☍ ☌ *cum* ☉

The Coniunction, Quadrature or Oppositiõ of the *Moone* with the *Sunne* in moyst Signes, rayny weather: The more if the *Moone* go from the *Sunne* to *Saturne*.

☽ ☌ □ ☍ ☌ *cum* ♀

The Coniunction, Quadrature or Oppositiõ of the *Moone* with *Venus*, chiefly in moyste Signes, rayne foloweth: The *Moone* goyng from *Venus* to *Mars*, more varietie of weather.

☽ ☌ □ ☍ ☌ *cum* ☿

The Coniunction, Quadrature, or Oppositiõ of the *Mone* with *Mercurie*, in moyst Signes, sheweth rayne ✶ wynde, the more when the *Moone* passeth from *Mercurie* to *Iupiter*: then great wyndes folowe.

Howe

How VVeather is iudged by the Oriental and Occidental station of Planetes, with their combustion in the. 12. Signes celestiall. First of the Planetes in Aries.

SATVRNE in *Aries* combuſt, that is to ſaye vnder the beames of the *Sunne*, maketh a cloudy darke troubled aire: *Orientall*, I meane in the mornyng appearyng before the *Sunne*, ſayze Weather: *Occidentall*, that is to ſaye ſhewyng himſelfe after the *Sunne* goyng downe, betokeneth great wyndes. ♄ *in* ♈

VVhat theſe termes Cõbuſt *Orientall*, and *Occidentall*, meane.

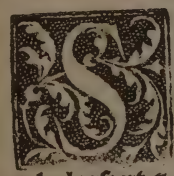
Iupiter in *Aries* cõbuſt, a token of rayne: beyng *Occidental*, it bringeth cloudes, and dewes: *Oriental*, ſayze pleaſant wether. ♃ *in* ♈

Mars in *Aries* combuſt and *Occidental*, good weather: contrary *Oriental*. ♂ *in* ♈

Venus in *Aries* combuſt *Occidental*, moyſtnes, great wyndes: *Oriental*, thunders and raynes. ♀ *in* ♈

Mercurie in *Aries* combuſt, tempeſt: *Occidental* and *Oriental*, ſayze wyndy weather. ☿ *in* ♈

Of the Planetes in Taurus.



SATVRNE in *Taurus* combuſt, and ſtationarie, bringeth thicke cloudes, thunders and troubleſome weather. ♄ *in* ♉

Iupiter in *Taurus* combuſt, indifferẽt weather: *Occidental*, pleaſant ſhoures. ♃ *in* ♉

Mars in *Taurus* combuſt, a quiet ayze: but *Oriental*, wyndy. ♂ *in* ♉

Venus in *Taurus* combuſt, thunders. &c. *Occidental*, ſayze. ♀ *in* ♉

Of the Planetes in Gemini.

♄ in ♊ SATVRNE in Gemini combust & Occidental, drought.

♃ in ♊ Iuppiter in Gemini combust, a good signification.

♂ in ♊ Mars in Gemini combust and Occidental, heat.

♀ in ♊ Venus in Gemini combust Occidental, wynde.

☿ in ♊ Mercurie in Gemini combust, wynde.

Of the Planetes in Cancer.

♄ in ♋ SATVRNE in Cancer cõbust, darke weather, great wyndes & troblesome weathers: Occidental, calmer.

♃ in ♋ Iuppiter in Cancer combust, bryngeth calme pleasaunt weather.

♂ in ♋ Mars in Cancer combust, great heat.

♀ in ♋ Venus in Cancer combust, a quiet calme tyme.

☿ in ♋ Mercurie in Cancer combust, tempestuous weather, chiefly on the Sea: Occidental, calmer.

Of the Planetes in Leone.

♄ in ♌ SATVRNE in Leone combust, maketh wyndes & mystlynges.

♃ in ♌ Iuppiter in Leone combust, pleasaunt wyndes.

♂ in ♌ Mars in Leone combust, Occidental, drought.

♀ in ♌ Venus in Leone combust, drought.

☿ in ♌ Mercurie in Leone combust, wyndes.

Of the

Of the Planetes in Virgo.

ATVRNE in *Virgine* combuſt, is a Significator of infirmities. ♄ *in* ♍

Iupiter in *Virgine* combuſt, manifeſteth abondaunce of thinges. ♃ *in* ♍

Mars in *Virgine* combuſt, lyke vnto *Saturne*. ♂ *in* ♍

Venus in *Virgine* combuſt drought: *Oriental*, contrary. ♀ *in* ♍

Mercurie in *Virgine* cõbuſt, drought, raging Seas: *Occidental*, drought. ☿ *in* ♍

Of the Planetes in Libra.

ATVRNE in *Libra* combuſt, ſheweth infirmitie of ſight: *Oriental*, colde wyndes. ♄ *in* ♎

Iupiter in *Libra* combuſt, indifferent weather ♃ *in* ♎

Mars in *Libra* combuſt, bryngeth moyſture. ♂ *in* ♎

Venus in *Libra* combuſt moyſt ayre. ♀ *in* ♎

Mercurie in *Libra* combuſt, wyndes. ☿ *in* ♎

Of the Planetes in Scorpione.

ATVRNE in *Scorpio* combuſt, colde ayre: *Occidental*, froſt: *Oriental*, colde, nozth wyndes. ♄ *in* ♏

Iupiter in *Scorpio* combuſt, rayne: *Occidental*, bitter weather. ♃ *in* ♏

Mars in *Scorpio* combuſt, declareth moyſture: *Orientall*, wyndes. ♂ *in* ♏

Venus in *Scorpio* combuſt, rayne, both *Occidental* and *Oriental*. ♀ *in* ♏

Mercurie in *Scorpio* combuſt, ragyng weather, chiefly *Oriental*. ☿ *in* ♏

Of the Planetes in Sagittarius.

♄ in ♐ SATVRNE in Sagittarius combust, colde rayny ayre: Oriental, colde and frost.

♃ in ♐ Iupiter in Sagittarius cõbust, much raine: Oriental, wose weather.

♂ in ♐ Mars in Sagittarius combust, drought.

♀ in ♐ Venus in Sagittarius combust, rayne: Occidental, wynde and colde.

☿ in ♐ Mercurie in Sagittarius combust, rayne: Occidental, clere ayre.

Of the Planetes in Capricornus.

♄ in ♑ SATVRNE in Capricornus combust, signifieth darke weather with South wyndes: Occidental, colde: Oriental, nozth wyndes.

♃ in ♑ Iupiter in Capricornus cõbust, moist ayre: Occidẽtal, increasing the same.

♂ in ♑ Mars in Capricornus combust, cloudy: Occidental, some heate.

♀ in ♑ Venus in Capricornus combust, colde ayre: Oriental, rayne.

☿ in ♑ Mercurie in Capricornus combust, rayne, both Oriental and Occidental.

Of the Planetes in Aquarius.

♄ in ♒ SATVRNE in Aquarius combust, colde ayre: Occidẽtal, daungerous sees: Oriental, rayne.

♃ in ♒ Iupiter in Aquarius combust Occidental, rayne.

♂ in ♒ Mars in Aquario cõbust, drought: Occidental & Oriental plẽty of wyndes.

♀ in ♒ Venus in Aquarius combust, cloudy: Occidental, hote: Oriental, rayne.

☿ in ♒ Mercuri in Aquarius cõbust, snow: Occidẽtal, more colde: Oriental, raine.

Of the

Of the Planetes in Piſces.

SATVRNE in Piſces combuſt, bryngeth cloudes. Occidẽtal, rayne. ♄ in ♓

Iupiter in Piſces combuſt Oriental, calme waters. ♃ in ♓

Mars in Piſces combuſt Occidental, drought: Oriental, lightninge and thunders. ♂ in ♓

Venus in Piſces combuſt, colde: Occidental, diſpoſed to ſnowe. ♀ in ♓

Mercurie in Piſces combuſt, moyſt ayre. ☿ in ♓

Thus muche of the iudgement of weather.

SEYNG that I haue nowe ſufficiently declared howe, by what rules and tokens, weather is iudged: I thinke it conuenient to adioyne here a breſe collection, howe Plentie, Scarcitie, Sickenes, Death, Alterations, Troubles, warres, &c. are for euer perceaued.

A rule to Prognoſticate the aforeſayde, by the fallyng of Neweyeares daye.

IT is affirmed of ſome, when Neweyeares daye falleth on the Sundaye, then a pleaſant wynter doth enſue: a natural Sommer: fruicte ſufficient: Herueſt indifferent, yet ſome wynde and rayne: many mariages: plenty of wyne and hony: death of yonge men, and cattell: robberies in moſt places: newes of prelates, of Kynges: and cruell warres in the ende. Sundaye.

ON Mondaye, a wynter ſomwhat vncomfortable: Sommer tẽperate: no plenty of fruicte: many fanſies and fables opened: agues ſhall reigne: Kynges and many others ſhall die: mariages ſhalbe in moſte places: & a cõmen fal of Gentlemen. Mondaye.

ON Tueſdaye a ſtormy wynter: a wet Sõmer: a diuers Harueſt: corne and frute indifferent: yet herbes in gardens ſhal not floryſhe: great ſyckenes of men, women and yonge chyldren Tueſdaye.

chyldren: Beastes shall hunger sterue, and dye of the botche: many shyppes, galleis, and hulkes, shalbe lost: And the bloudy fyres shall kyll many men: All thynges dere, saue Corne.

VVednesday. ON VVednesday, Loe a warme wynter: In the ende, snow and frost, a cloudy Sommer, plenty of fruicte, of corne, haye, wyne, and honye, great payne to women with childe, and death to infantes, good for shepe, newes of Kinges, great warres battell and slaughter towarde the myddes.

Thursday. ON Thursday, Wynter and Sommer wyndy: A rayny Heruest: Therfore we shal haue ouerflowynges: Much fruicte: plenty of hony: Yet flesshe shalbe dere: cattell in general shall dye, great trouble, warres. &c. With a licentious lyfe of the feminine sere.

Fryday. ON Fryday, Winter stormy: Sommer scante pleasant: Heruest indifferent: litle store of fruicte, of wyne, and hony: corne dere: Many bleare eyes: Youth shall dye: Earthquakes are perceaued in many places: plenty of thunders, lightnynges, and tempestes: with a sodein death of cattell.

Saturday. ON Saturday, a meane wynter: Sommer very hote: A late Heruest, good cheape garden herbes, muche burnynge: plenty of Hempe, Flare, and Hony. Olde folke shall dye in moste places: Feuers and Tercians, shall greeue many people: great mutteryng of warres: murders shalbe sodenly committed in many places, for lyght matters.

NOwe that I haue opened dyuers wayes, both for the learned and vnlearned, how weather to come at al tymes may be well iudged and knowen. &c. I thought it mete, for farther knowledge therein, not to omitte here the naturall causes of suche and so many alterations of ayre. Loe, therefore orderlye they folowe.

Naturall

Naturall causes, conducyng to all the aforesayd: and first of the Raynbowe.

THe *Raynbowe* is the shynyng and reboundyng of beamis of light, that tourne to the contrary vapour agayne in the cloude. It declareth sometyme rayne, and many tymes fayre weather: when the one, and howe the other, is before opened.

Of *Rayne*.

RAyne is a colde vapour, an earthy humour, or fumosities, out of waters or earth drawen vp by the vertue of the *Sunne*, to the nether parte of the midle space of the ayre there through colde thycked, then dissolued, thus engendred falleth on the earth.

Here I leaue to speake of miraculous raynes, as *Mylke*, *Bloude*, *Flesshe*, *yron*, *wol.* &c. For more satisfieng in these, reade *Plinius* in the second booke. 58. Chapter. *Quare lapides pluant, lege Pli. Lib. 2. Capit. 44.*

Of *Frost and Dewe*.

A Colde moyst vapour, a litle waye drawen vp in the daye thorowe faynt heate of the *Sunne*, descendeth in the nyght, dissolued on the earth, there cõgelated, or resolued into water, the one called Frost, the other Dew. The last is a sygne of fayre weather in the Spryng or Haruest. *Ros estate, pruina hieme fit.*

Of *Snowe*.

IT is a moyste vapour, drawen vp to the mydle region of the ayre, then thycked, and frosen into the body of a cloude: So congelated descendeth. *Nix humor modice concretus.*

Of *Hayle*.

A Cloude resolued into water, in the fall congelated, maketh Hayle. The hyer it commeth from aboue, and the longer it tarrieth in the ayre, the rounder hayle. *Grando, pluuia in discensu congelata.*

Of wyndes.

Ventorũ ergo materia, calida & sicca exhalatio.

VVynde is a multitude of *drye exhalations*, drawen vp from the earth: and aboue the earth enforced here and there.

Of earthquakes, in the moste quiet tyme.

Quemadmodũ in nube tonitruum, sic in terra tremor.

PLenty of wyndes, entred into holes, cones, or caues of the earth, whiche absent from aboue the earth, causeth quietnes: the violent brustyng out of them (the earth closed againe) is the earthquake: *Signum est futurorum bellorum.*

Tokens of earthquakes to come.

AFyry cloude, appering in the element lyke a lytle *Pyllar*, is a token of earthquakes to come. The obscuritie or darkenes of the *Sunne*, without cloudes, and straungely coloured, bloudy or otherwyse, is a token of earthquakes.

Signa terre motus.

Also when well water and others are troubled or salt, or infected by sauour &c.

A great quietnes of ayre, by lande and sea, and chiefly the longe absence of wyndes.

Also straunge noyses harde, as clamours of men, russhyng of harnes, mourninges lamentacions, &c. All these haue bene obserued, to signifie earthquakes at hande.

Of *Thunders and Lightninges.*

THunder is the quenching of fyre, in a cloude. Or thunder is an exhalation hote and drie myxte with moisture, carried vp to the *myddle region*, there thycked and wrapped into a cloude: of this hote matter coupled with moystnes, closed in the cloude groweth a stryke, the heate beating, and breaking out the sydes of the cloude with a thundring noyse: the fyre then dispersed, is the lyghtninge. Thus for the learned: *Tonitruum sonitus est, qui editur quãdo nubem rumpit halitus. Fulmen flamma uel repentinus est ignis, qui ex collisione nubium, aut ruptura nascitur.* Aristotel affirmeth the lightnyng after the thunder, but the fyre doth fyrst appere, in that the sight is before the hearyng. If this satisfie not, reade the seconde of his *Meteoron*. Here foloweth a note of lightninges.

Fulgetrũ prius cerni, quam tonitrum audiri, cum simul fiant certum est, Pli. lib. 2. Cap. 56. contra Aristo.

There

There be thre kyndes of Lightninges, drye, moyst, and clere.

DRye do not burne but cleue, departe or diuide. *Moyste* burne not but alter colour. The *Clere* are of marueilous natures. Full barels by it are emptied. It melteth mony in the purs, it breaketh the swerde, the purs and scaberd not perysshed, yea, wex in them vnmolten. Note.

Of the Cometes or flames in the nyght.

A Comete is a flame, worlyng in a lyre, hote, slymie *exhalation*, drawen vp to the hyghest part of the ayre. His mater or substaunce after it is brent dispersed, prouoketh wyndes. *Ventorū causa*

The naturall cause of the Sunne Eclypsed.

NOthyng els is the *Eclips* of the *Sunne*, but the directe puttyng the body of the *Moone* betwene the *Sunne* and the earth, or betwene our syght and the *Sunne*: whiche chaunceth onely at the change.

A Corollarie.

BY this gather the darkenes at Chrystes death, not to stande by naturall ecliptical cause: but by supernaturall, or miracle. For it was at the full *Moone*, the *Scriptures* witnes: which enforced *Dionisius Areopagita*, at the time of his passiō, to speake thus *Aut deus nature patitur, aut mundi machina dissoluitur.* *Miracle.*

The cause of the Moone eclypsed.

THe *Sunne* beyng in the contrarie poynt to the ful *Moone*, enforceth the shadowe of the earth, then directly put betwene the *Sunne* and the *Moone*, towarde the *Moone*, hyding more or lesse of the *Moone*, as she differeth from the *Ecliptical*. Some obserue pestilent plagues, soden batail, great dearth, to ensue these *Eclypses*: whiche all I desire God to auerte from his chosen. Many other thinges by this *Eclyps* are gathered, as *Longitudes* of countreis: the *quātitie* of the *Sunne*, cōtaining the bignes of the earth 162 times: the *Vniuersalis est Eclipsis Lunæ. Non semper in nouilunio, sed in ca, et cauda.*

Compasse of the earth 21600. myles: whose thycknes, according to Archimedes rule is, 6872. myles and eyght eleuenthes of a myle. The quantite of the Moone is the 43 part of the earth.

Omnium planetarum ad terrā magnitudo.

The Sunne contayneth the globe of the Moone 7000 tymes. Saturnus comprehendeth the bygnes of the earth 91 tymes: Iupiter, 95 tymes: Mars, ones & ten sixtenthes: Venus, the 37 part: Mercurius, one 32000 part of the earth.

Note here, that Alfraganus affirmeth the least fired sterre perfectly seen as bygge as the whole earth.

Dimetiens ⊙ ad terre dimetientem 11 ad 2.

HÆc non erunt admirationi, si globi capacitatem ex longitudine diametri quesieris. Cōtinet enim solis dimetiēs terre dimetientē quinquies & semissem. Estque proportio diametri solis ad terre dimetientem, que est numeri undecim ad duo, quintupla sesquialtera. Cubus solis mille tercentum unam & triginta partes tales continet, cuiusmodi terre cubus octonas complectitur. Cubus enim numeri undecim, est mille tercentum unum & triginta.

Cubus ⊙ 1331 Terre 8

Cubus uero binarii, qui est terre, octo. Subducto quoties id fieri potest, minore cubo qui est terre, a maiore qui est solis, cognoscitur cubi ad cubum proportio, & quanto Sol maior, terra sit. Inuenimus ergo octo centies, sexagies sexies, in mille tercentum uno & triginta.

Dimetiēs terre ad diam. ☽ 17. ad 5. Cubus terre 4913. Cubus ☽ 125.

¶ Terre Diametros Lunae dimetientem complectitur ter, & duas eius diametri portiones quintas: estque ea proportio dimetientis terre ad Lunae diametrum, que est septendecim ad quinque tripla superbipartiens quintas. Cubus numeri septendecim est quater mille nongēta tredecim. Cubus numeri quinque est centum uiginti quinque. Maiore cubo per minorem distributo, reperimus numerū centum uigintiquinque, tricies nouies in quater mille nongentis tredecim: quod paululum a superioribus obseruationibus differt.

The quantities, or rather true proportion of all the Planetes unto the earth, ocularlie demonstrated by fygure folowyng.

Mercurie is but a poynt in respect of these Quantities.

By these fyue *Globes* are represented the true magnitudes of the seuen *Planetes*. One globe or lyke magnitude appointed for *Saturne* and *Iupiter*: Euen so for the *Moone* and *Venus*: the rest haue seuerall globes, (as ye may see) according to their quantities.

The nature course colour and placing of these seuen Planetes.

♄ SATVRNE is the hyghest and slowest in proper motion: colde, drie and pale, lyke vnto lede colour requiring thyrty yeares to ende his course. *Di. 9 ad 2.*

♃ IVpiter is next vnder *Saturne* temperate, fayre and bryght: his course is perfourmed in 12 yeares. *Di 32 ad 7.*

♂ MArs is hote and drie of fierie colour: in two yeares endeth his course. *Di 7 ad 6.*

☉ THe *Sunne* is placed in the mydle of all the *Planetes*, moste cleare and bryght, the well of pure lyght: euery yeare fynishyng his course. *Di 11 ad 2.*

♀ VEnus is next to the *Sunne*, colde moyste & cleare, ye more bryghter thē *Iupiter*: her course is lyke vnto the *Sunnes*: neuer aboue eyght and fourty degrees from the *Sunne*: called the *Morning sterre* when she goeth before the *Sunne*: cumming after the *Sunne*, she is named the *Euen sterre*. *Di 3 ad 10.*

☿ MErcurie is next vnder *Venus*, sumwhat shynyng, but not very bryght: neuer aboue 29 degrees from the *Sunne*, his course is lyke to *Venus*, or the *Sunnes* motion.

For more playnes of that whiche is opened, nowe shall folowe a fygure by the whiche ye may perceaue howe the *Orbe* of the one *Planete* cōpasseth the other. Also how these *Planetes* are placed in the heauen, yea whiche *Planete* is hyghest from the earth, and whiche nerest vnto vs. Consider well this figure, so needeth no farther declaracion.

Ye may

THE LEARNED DO APPOYNCTE THE ABITACLE OF GOD: AND ALL THE ELECTE & HERE
The fyrst Mouer
The cristallyne Heuen
The sterrie firmament
Saturne
Iuppiter
Mars
Sunne
Mercurie
Venus
Moone

We may here beholde first the *Elemental* parte subiecte vnto alteracion, consisting of the foure *Elementes*, first *Earth* and VVater, whereon we are, then *Ayre* and *Fyer*. The other *Ethereal* part (which the *Phylosophers* call *quinte essence*) conteyneth the ten *Orbes*: the bygger cumpasseth the nert lesser, as the figure before showeth. It begynneth at the *Moone*, then *Mercurie* *Venus*, *&c.* in hyght more and more. As the figure declareth *Saturne* to be the highest *Planete*: so is the *Moone* lowest.

The distaunce, or myles that the Moone is from the earth, and euery Planete from other.

AS some haue publyshed, it is from the earth to the *Moone*. 15750. myles.
From the *Moone* to *Mercurie*, is 12812. myles.
From *Mercurie* to *Venus*, as many myles.
From *Venus* to the *Sunne*, is 23437. myles & a halfe.
From the *Sunne* to *Mars*, is 15725. myles.
From *Mars* to *Iupiter*, is 78721. myles.
From *Iupiter* to *Saturne*, as many myles.
From *Saturne* to the firmament 120485. myles.
The whole summe from the earth to the firmament is, 358463 myles, and a halfe. Here *Demonstration* myght be made of the distaunce of these *Orbes*, but ỳ passeth the capacite of the cõmõ sort.

Hec incredibilia uidentur tãtum hiis, quì mathematicis demõstrationibus non assueuerunt, &c.

The natural operations of these *Planetes* by cõiunction, opositiõ &c. ensueth: But more largely of me opened in a pleasant boke, shortly to be publyshed. First here wil I ende the natural causes of many *Sunnes* and *Moones* then of the *Planetes* by coniunction.

The natural causes of many Sunnes, or Moones.

Milichius noteth the kyng of Pole to haue sene. 6. Sunnes at ones.

THese come to passe, when a thicker cloude is gathered toward the side of the *Sunne* or *Moone*, in the whiche the broken beames of the *Sunne* do leaue the fashion and very forme of that *Sunne*. Thus as foloweth, sayeth *Plinius* in his seconde boke of the history of nature, and 31. chapter. No moe *Sunnes* are perceyued in our tyme then three: and they are neuer sene, either

aboue or beneth the Sunne, but on the sydes: neuer in the nyght, but onely at the Sunne rysing, or going doune.

VVhat is to be chosen or auoyded under euery aspect of the Moone: with her signification in the twelue Signes, touchyng the same.

THE coniunction, quadrature or oppositiõ of Saturne with the Moone, causeth an euill vnlucky daye for all maters. Leaue therfore to haue to doo any maner waye: nothyng shall prosper, or come well to passe then attempted. Yet the Sextile or Trine of Saturne, with the Moone, declareth a conuenient tyme to til, delue or dygge, to sowe, to laye foundacions, to erect or repayre houses, yea a mete tyme to obtayne suites of fatherly fauours. The Moone in Capricornus or Aquarius, bryngeth this later effect of the sextile and trine. ♄ ☌ □ *uel* ☍ *cum* ☽ ♄ ✶ ☌ △ *cum* ☽ ☽ *in* ♑ *uel* ♒

The coniunction, sextile, trine, quadrature or oppositiõ of Iupiter with the Moone, sheweth a fortunate daye, chiefly to obtayne suites of Kynges, noble Princes, Prelates &c. of Lawyars and Religious persones: and a mete tyme to study, to iourney, to take an honest mater in hande. The Moone in Taurus, in Leo, or Sagitarius, sheweth thesame. ♃ ☌ ✶ △ □ *uel* ☍ *cum* ☽ ☽ *in* ♉ ♌ *uel* ♐

The coniunction, sextile, trine, quadrature or oppositiõ of Mars with the Moone, warneth the not to matche thy selfe that day with warriours: notwithstanding very good, and moste mete to fynishe all maner fyry workes: naught to iourney: yet moste conuenient for valiaunt captaynes to worke their feat, to leade, encourage or stomacke their souldiars: moste vnmete to treate peace, to take sauuntes, or to seke frendshyp. ♂ ☌ ✶ △ □ *or* ☍ *cum* ☽

The coniunction, quadrature or oppositiõ of the Sunne with the Moone, declareth a very vnhappy daye for all maters: therefore attempt nothyng, ne any maner sute: neyther plant, buylde, ne iourney. Yet the sextile and trine are very fortunate, specially to obtayne sute of kynges, Princes, and other Nobles. The Moone in Aries enforceth the effect of this later part. ☉ ☌ □ *uel* ☍ *cum* ☽ ☽ *in* ♈

♀ ☌ ✶ △ □ *uel* ☍ *cum* ☽

The coniunction, sextile, trine, quadrature or oppositiõ of *Venus* with the *Moone*, causeth a daie moste apt to obtayne all suites of women: good to woo, to attempte mariage, and to followe all maner pleasures, and pleasaunt passymes: not vnmete to hyre seruauntes, to let bloude &c. The *Moone* in *Libra* or *Pisces*, prouoketh the lyke.

☿ ☌ ✶ △ □ *uel* ☍ *cum* ☽

The coniunction, sextile, trine, quadrature, or oppositiõ of *Mercurie* with the *Moone*, promiseth a fortunate happy daye, to bye and sell: very good to enter chyldren in *Liberall artes*: an apt tyme for the versifiar: good to vse marchaundyse, to iourney, to sende embassage, to geue accomptes and suche lyke.

☽ *in* ♊ ♋ *uel* ♍

The *Moone* in *Gemini*, *Cancer* or *Virgo*, enclyneth euen to thesame aforesayde.

☽ *cum* ☊

The *Moone* with the *Dragons head*, sheweth a lucky daye for all maters: with the *Tayle* contrary.

Now ensueth a Table shewyng what signe the Moone is in, and shall be for euer: declaryng also the meteste tyme to let Bloude, to Pourge, and to Bathe.

The Table hath at the head *seuen titles*. The first *Monethes*: the seconde *Dayes*: then the *Prime*: the twelue *Signes*: the titles to let *Bloude*, to *Purge*, and to *Bathe*.

Here it is to be noted, that those daies are good for these purposes, whiche be signed with this letter G: and those euell dayes, that are noted with B.

¶ This Table declareth for euer, in what Signe the Moone is or shall be at any daye in the yeare. It serueth also very well to let Bloud, to Purge, and Bathe.

Monethes.	Daies.	Prime.	The 12. Signes.	To let Bloude.	To Purge.	To Bathe.
Febr. Nouē.	1	3	Aries.	G	B	G
Marche.	2		Aries.	G	B	G
	3	14	Taurus.	B	B	B
Decembre.	4	6	Taurus.	B	B	B
	5		Gemini.	B	G	
Aprill.	6	17	Gemini.	B	G	
	7	9	Cancer.		G	G
Maie.	8	1	Cancer.		G	G
	9		Cancer.		G	G
	10	12	Leo.	B	B	G
	11	4	Leo.	B	B	G
	12		Virgo.	B	B	B
	13	15	Virgo.	B	B	B
July.	14	7	Libra.			
	15		Libra.			
	16	18	Scorpius.		G	G
	17	10	Scorpius.		G	G
Auguste.	18	2	Scorpius.		G	G
	19		Sagittarius.	G		G
	20	13	Sagittarius.	G		G
	21	5	Capricornus	B	B	B
Septembre.	22		Capricornus	B	B	B
	23	16	Aquarius.			G
Ianua. Octo.	24	8	Aquarius.			G
	25		Pisces.		G	G
	26	19	Pisces.		G	G
	27	11	Pisces.		G	G

A Table for lettyng of bloud, &c.

Seke out vnder the titles of the monethes, the name of the moneth, whose day you must loke out right against the moneth, vnder the title of daies: and there beginne to tell downewardes, *one, two, thre. &c.* to the ende, if it so require, and then from the begynning, if nede be, vntill you haue reconed the numbre of the day that you seke. Loke what numbre it falleth vpon in this table, vnder the title of *dayes:* that nũbre kepe in mynde. Then seke vnder the title of the prime, the golden numbre for that yeare: ryght against that lestwarde, vnder the title of *daies*, begyn to tel downwardes, *one, two, thre. &c.* vntyll you haue reckoned the nũbre which you did kepe in minde. Against that towardes your ryght hande, vnder the title of *Signes*, is the signe wherein the *Moone* shalbe that daye. Euen then vnder the other titles, ye shall fynde in ryght order, for *lettyng bloude*, for *pourging* and *bathyng*, according as they be noted with G. whiche is good, and B signifieng badde. Ensample.

The firt day of *Marche* in the yeare of our Lorde 1555. I desire to knowe what celestiall signe the *Moone* doth then occupie. I fynde first the name of the *Moneth*, that is *Marche*: and the daye as foloweth, in the next order of this table. I begynn here to tell ryghte against my moneth, at the figure of 2. saying *one, two, thre, &c.* so I haue at the ende, and compt of syx dayes this fygure 7. which I kepe in mynde. Nowe I must seke out the *Golden numbre* for the yeare aforsaid, vnder the title of the prime here, that is 17. against the whiche on the left syde is 6. There you must begynne agayne to compte, *one, two, thre, &c.* vntyll you come vnto your numbre 7. So on your right hande in the rowe, or order, you shall see *Virgo*, the celestiall *Signe* that the *Moone* is in: and after that these thre letters B whiche declarebadde or euell to let *Bloud*, to *Purge* or *Bathe*, agreable to the titles in the head. G there had signified good.

For as muche as letting of *Bloude*, *Pourgyng*, and *Bathyng*, *Inundacions*, *Fluddes*, *Timbrefallyng*, *Sowyng*, *Planting*, *Graffyng*, *Cuttyng*, *&c.* depende chiefly on the *Signe* wherein the *Moone* is, which I haue euen before plainly opened, I thought it mete to haue thẽ nowe orderly touched, as foloweth.

A conducible note for letting bloude.

LEt bloude at no tyme without great cause, for it bryngeth weakenes and many infirmities. If ye do, se it be after good digestion, and fasting, in a fayre temperate daye. Beware before of al maner *exercise, bathinges, watchinges & carnall copulacion. &c.* After vse fyne meates, of lyght digestion, abstaynyng from all the afore sayde, vntyll the fourth daye.

Malum minui, uel purgationi bus uti, tempore caloris, propter defectum humoris.

These *Signes* are moste daungerous for bloud letting, the *Moone* beyng in them: *Taurus, Gemini, Leo, Virgo* and *Capricornus*, with the last halfe of *Libra*, and *Scorpius*. The rest are all good, so the *Moone* beare no domination in that membre whiche ye cut: as foloweth.

Ill to let bloud in ♉ ♊ ♌ ♍ ♑

Beholde the fygure.

The Dominion of the Moone in mans bodye.

Aries.	THE	Head and face.
Taurus.		Necke.
Gemini.		Armes, handes, shoulders
Cancer.		Brest, stomache, rybbes.
Leo.		Heart, backe.
Virgo.		Bowels, belly.
Libra.		Reynes, nauill, buttockes.
Scorpius.		Secret membres.
Sagittarius.		Thyes.
Capricornus.		Knees.
Aquarius.		Shynnes, legges.
Pisces.		Fete.

FRom the *chaunge* to the *first quarter*, a mete tyme to let ponge men bloud.

From the *first quarter* to the *full*, good for middle age.

From the *full* to the *last quarter*, apt for aged folke.

From the *last quarter* to the *chaunge*, best for olde men.

Signes mete for the complexions.

ARIES. Sagittarius. } For the *fleumatike*: the head, and thyes excepted.

Libra. Aquarius. } For *melancholike*: buttockes and legges excepted.

Cancer. Scorpius. Pisces. } For *Cholerike*: brest, membres, and fete excepted.

For the *sanguine*, all be apt that tofore are named good.

In the *spring tyme*, let bloud at the ryght syde.

In *Haruest tyme*, at the left syde.

Hec diligentissime obseruare oportet solertem Medicum, nisi maiora pericula cogant.

The

The learned *Phisician* wyll consyder, besyde all that is saide, the *Coniunctions*, *Oppositions*, and *Quadrat aspectes* of the Planetes: with many other thynges *Astronomical*, most necessarie, both in *bludletting*, *pourging*, *bathing*, &c.

For to take purgacions, and to bathe.

The meteste time to take purgations &c. is neither in hote, nor colde dayes: that is from the tenth of *Marche*, to the twelfthe of *Iune*.

Further by rules *Astronomical*, it must be perfourmed when the *Moone* is in colde, moist, and watry *Signes*, as *Cancer*, *Scorpius* & *Pisces*: comforted by aspectes and radiatiõs of planetes, fortifieng the vertue of the body expulsiue. *Good to purge* ♋ ♏ ♓

The *Moone* in *Aries*, *Taurus*, and *Capricornus*, naught. One cause of vomiting the purgation is if the *Moone* haue aspect to any planet *retrograde*. *Bad to purge.* ♈ ♉ ♑

The *Moone* in these *Signes* folowyng, very good to *bathe*: *Aries*, *Leo* *Sagittarius*, *Cancer*, *Scorpius*, and *Pisces*. *Good to bathe.* ♈ ♌ ♐ ♋ ♏ ♓

These ensuyng are euill to *bathe*: *Taurus*, *Virgo*, and *Capricornus*. *Bad to bathe.* ♉ ♍ ♑

Of Inundations or fluddes: of tymbre fallyng, sowyng, plantyng, graffyng, heare clippyng, shauing, and geldyng.

The fludde is byggest at the full: because then dispersyng her vertue, she sylleth all places with moysture. By common experience, ioyned with learnyng I knowe, at the ful the *Moone* lodeth all bodies with humours: and so are emptied, growyng to the change. Of this, some gather the fall of tymbre at the chaunge, more to the purpose then other tymes: wantyng then superfluous moysture, the cause of putrefaction. *Omnis putredo ab aquoso humido ortum habet.* *Schoner* willeth from the. 15. daye vnto the. 22. daye of the *Moone*, trees to be felled, and that after *Mydsommer* to *Ianuarie*. So tymbre is strong, sounde, and voyde of wormes. *The fall of tymber.*

To Sowe, *Taurus*, *Cancer*, *Virgo*, *Libra*, and *Capricornus*, are best, in the increace of the *Moone*. *Good to sowe.* ♉ ♋ ♍ ♎ ♑.

To *Plante* or *Graffe*, is best when the *Moone* hath her being in any fired *Signe*, either in *Taurus* or *Aquarius*, in the encrease. *To plante or graffe.* ♉ ♒

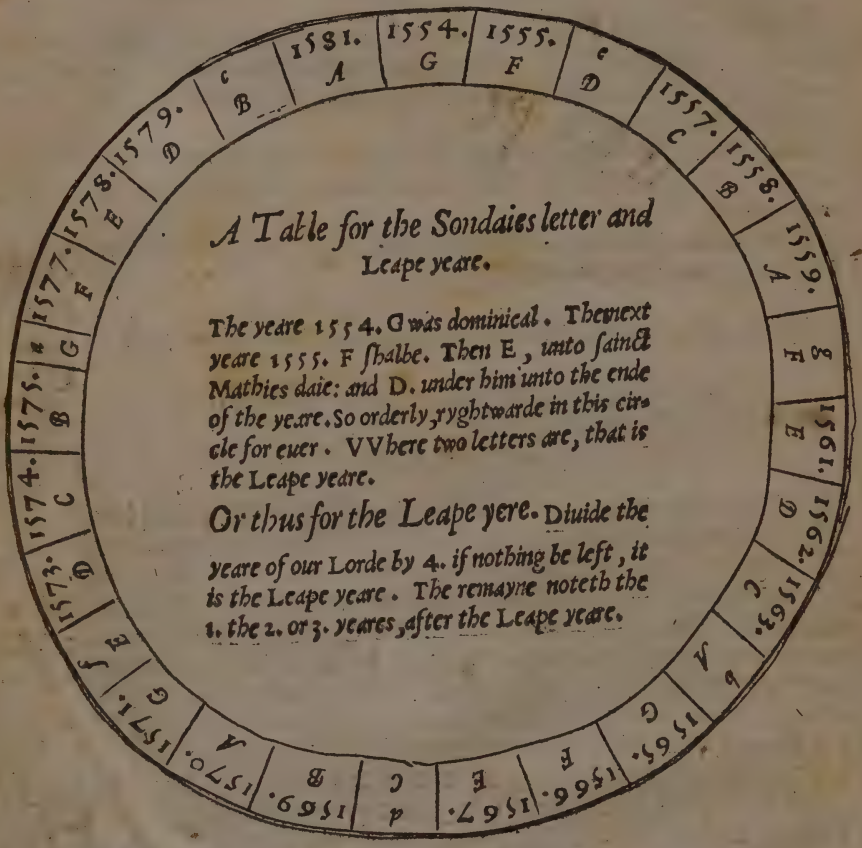
Heare cut groweth well, the *Moone* encreasing, being in *Taurus*, *Virgo* or *Libra*. *To cut heare.* ♉ ♍ ♎

Cutting

Cutting, shauing, Clipping, in the wane causeth baldnes: what is then cut, groweth litle. *Caluitium prohibet oleum Tartari.*

The best tyme of *Cutting is in Cancer, Scorpio, or Pisces*, in the wane.

These two rounde Tables that nowe ensue conduce to the rest folowyng.



A Table for the Sondaies letter and Leape yeare.

The yeare 1554. G was dominical. The next yeare 1555. F shalbe. Then E, unto saincte Mathies daie: and D. under him unto the ende of the yeare. So orderly, ryghtwarde in this circle for euer. VVhere two letters are, that is the Leape yeare.

Or thus for the Leape yere. Diuide the yeare of our Lorde by 4. if nothing be left, it is the Leape yeare. The remayne noteth the 1. the 2. or 3. yeares, after the Leape yeare.

VVhen ye haue gone rounde about the Yeares: these two Tables begynne agayne.

A Table for Iouable Pastes.

The prime.	The Sondaies letter.	The first Lent Sonday.	Easter day.	Rogation.	whitsontide.	Betwixt whitsond. & midso.	
16		Februarie.	Marche.	April.	Maye.	wek.	daies
5	d	8	22	26	10	6	3
	e	9	23	27	11	6	2
13	f	10	24	28	12	6	1
2	g	11	25	29	13	6	0
	A	12	26	30	14	5	6
10	b	13	27	May. 1.	15	5	5
	c	14	28	2	16	5	4
18	d	15	29	3	17	5	3
7	e	16	30	4	18	5	2
	f	17	31	5	19	5	1
15	g	18	April. 1	6	20	5	0
4	A	19	2	7	21	4	6
	b	20	3	8	22	4	5
12	c	21	4	9	23	4	4
1	d	22	5	10	24	4	3
	e	23	6	11	25	4	2
9	f	24	7	12	26	4	1
	g	25	8	13	27	4	0
17	A	26	9	14	28	3	6
6	b	27	10	15	29	3	5
	c	28	11	16	30	3	4
14	d	Marche. 1.	12	17	31	3	3
3	e	2	13	18	Iune. 1.	3	2
	f	3	14	19	2	3	1
11	g	4	15	20	3	3	0
	A	5	16	21	4	2	6
19	b	6	17	22	5	2	5
8	c	7	18	23	6	2	4
	d	8	19	24	7	2	3
	e	9	20	25	8	2	2
	f	10	21	26	9	2	1
	g	11	22	27	10	2	0
	A	12	23	28	11	1	6
	b	13	24	29	12	1	5
	c	14	25	30	13	1	4

The use of this Table appointed for the mouable Feastes.

THis Table conteyneth in the first title the Prime: in the seconde, the Dominical letter: in the thirde, Lent, in the fourth Easter daie, in the fifth, Rogation daie, in the sixte, VVhitsondaie: in the seuenth, how many weakes and daies are betwene VVhitsondaie and Midsomer. Whiche all appeare by their titles.

Ye shall consider by the litle rounde Table before put forth, what numbre the Prime is that yeare, whereof ye require to knowe all these aforesayde: and seke that numbre vnder the first title of this Table ensuyng. Then seke vnder the seconde the Dominical letter next after the Prime for that yeare: whiche title ensueth the Prime. Directly against thesame Dominical letter, towardes youre ryght hande, in thesame lyne, ye shal fynde vnder the titles, what Moneth and daie, euery one of these aforesayde shall happen.

Ensample.

I would knowe this yeare of our Lorde 1555. these moueable feastes: the first Lent sondaie, Easterdaie, Rogation daies, VVhitsondaie, and howe many weakes betwyxt VVhitsondaie, and Midsomerdaie. First I fynde the Prime this yeare 17, which 17 I loke out vnder the title of Prime in the Table before. Then I seke in the next order, and after the Prime, for the Dominical letter that yeare. Nowe in ryght order, according to the titles, I fynde the thirde of March to be the first Lentsondaie: the 14 of April Easterdaie: the 19 of May, Rogation: the 2 of June, VVhitsondaie: and 3. wekes, and 1. daye betwixt whitsonday, & Midsomerday. Thus for euer.

Howe to knowe the age of the Moone: then the chaunge, and quarter for euer.

FIrst learne the Epact (as I haue instructed) for that yeare ye seke to knowe the age of the Moone, then reken howe manye dayes is past of that moneth, whiche daye ye desyre to knowe the age. Put that numbre to the Epact. Then begyn at Marche, and reken for euery moneth from hym orderly one, vntill your sayd day, including both the moneth of Marche, and also the moneth of your sayd daye. Adde all these dayes vnto your former numbre: putting awaye as many *thyrty daies*, as ye fynde. The rest, is the age of the Moone. The Age founde, the *chaunge* is knowen. If ye adde 7 days to the *chaunge*, ye haue the fyrst quarter: then 7 dayes, and somwhat more, sheweth the *full*: and so to it addyng 7 and more, bringeth the *last quarter*: thus by 7 vnto the newe Moone.

By the Prime the chaunge is knowen, but uncertaynly: therefore here omitted.

Ensample.

In anno Bisextili unum adde

The 10 daye of *Ianuarie*, the yeare then beyng 1555. I desire the age of the Moone. I fynde the Epact vntyll Marche ensuyng to be 26, that added vnto 10 maketh 36 then a 11 for the monethes from Marche to *Ianuarie*, including both Monethes, bryngeth 47: nowe 30 pulled awaye, leueth 17 the age of the Moone.

Nowe ensue two perfecte Tables, declaryng the trew Houre and minute of Ebbing and Flowing, in moste coastes of Englande.

Quin South-ampton. Ports-moth.	Redban Aberdē	Graues ende.	Dūdee. S. And.	Age of the Moon	London Tinmot Hertle pole.	Ber-wyke.	Erith. Lythe. Dūbar	Falmot
South.	S b w.	S S w.	S w b S		S w.	S w b w	w S w	w b S.
H. M.	H. M.	H. M.	H. M.	☽	H. M.	H. M.	H. M.	H. M.
12 48	1 33	2 18	3 3	1	3 48	4 33	5 18	6 3
1 36	2 21	3 6	3 51	2	4 36	5 21	6 6	6 51
2 24	3 9	3 54	4 39	3	5 24	6 9	6 54	7 39
3 12	3 57	4 42	5 27	4	6 12	6 57	7 42	8 27
4 0	4 45	5 30	6 15	5	7 0	7 45	8 30	9 15
4 48	5 33	6 18	7 3	6	7 48	8 33	9 18	10 3
5 36	6 21	7 6	7 51	7	8 36	9 21	10 6	10 51
6 24	7 9	7 54	8 39	8	9 24	10 9	10 54	11 39
7 12	7 57	8 42	9 27	9	10 12	10 57	11 42	12 27
8 0	8 45	9 30	10 15	10	11 0	11 45	12 30	1 15
8 48	9 33	10 18	11 3	11	11 48	12 33	1 18	2 3
9 36	10 21	11 6	11 51	12	12 36	1 21	2 6	2 51
10 24	11 9	11 54	12 39	13	1 24	2 9	2 54	3 39
11 12	11 57	12 42	1 27	14	2 12	2 57	3 42	4 27
12 0	12 45	1 30	2 15	15	3 0	3 45	4 30	5 15
12 48	1 33	2 18	3 3	16	3 48	4 33	5 18	6 3
1 36	2 21	3 6	3 51	17	4 36	5 21	6 6	6 51
2 24	3 9	3 54	4 39	18	5 24	6 9	6 54	7 39
3 12	3 57	4 42	5 27	19	6 12	6 57	7 42	8 27
4 0	4 45	5 30	6 15	20	7 0	7 45	8 30	9 15
4 48	5 33	6 18	7 3	21	7 48	8 33	9 18	10 3
5 36	6 21	7 6	7 51	22	8 36	9 21	10 6	10 51
6 24	7 9	7 54	8 39	23	9 24	10 9	10 54	11 39
7 12	7 57	8 42	9 27	24	10 12	10 57	11 42	12 27
8 0	8 45	9 30	10 15	25	11 0	11 45	12 30	1 15
8 48	9 33	10 18	11 3	26	11 48	12 33	1 18	2 3
9 36	10 21	11 6	11 51	27	12 36	1 21	2 6	2 51
10 24	11 9	11 54	12 39	28	1 24	2 9	2 54	3 39
11 12	11 57	12 42	1 27	29	2 12	2 57	3 42	4 27
12 0	12 45	1 30	2 15	30	3 0	3 45	4 30	5 15
North.	N b E	N n E	N e b N	☽	N E	N e b E	E n E	E b N.

The first table of Tydes.

Foy Lin. Hũber. weimot. Dertm. Plimot.		Briſto.		Milfo. Bridg⁹ wáter.		Portl. Peter. porte.		Age of the Moone.	Orkn. Pole. Ors wel.		Diep. Lux. Le⁹ noys.		Boloig. Douer. Harwick Yarmot.		Calice.	
Fuſt.		EbS.		EsE		SebE			SE		SebS		S sE		SbE	
H.	M.	H.	M.	H.	M.	H.	M.		H.	M.	H.	M.	H.	M.	H.	M.
6	48	7	33	8	18	9	3	1	9	48	10	33	11	18	12	3
7	36	8	21	9	6	9	51	2	10	36	11	21	12	6	12	51
8	24	9	9	9	54	10	39	3	11	24	12	9	12	54	1	39
9	12	9	57	10	42	11	27	4	12	12	12	57	1	42	2	27
10	0	10	45	11	30	12	15	5	1	0	1	45	2	30	3	15
10	48	11	33	12	18	1	3	6	1	48	2	33	3	18	4	3
11	36	12	21	1	6	1	51	7	2	36	3	21	4	6	4	51
12	24	1	9	1	54	2	39	8	3	24	4	9	4	54	5	39
1	12	1	57	2	42	3	27	9	4	12	4	57	5	42	6	27
2	0	2	45	3	30	4	15	10	5	0	5	45	6	30	7	15
2	48	3	33	4	18	5	3	11	5	48	6	33	7	18	8	3
3	36	4	21	5	6	5	51	12	6	36	7	21	8	6	8	51
4	24	5	9	5	54	6	39	13	7	24	8	9	8	54	9	39
5	12	5	57	6	42	7	27	14	8	12	8	57	9	42	10	27
6	0	6	45	7	30	8	15	15	9	0	9	45	10	30	11	15
6	48	7	33	8	18	9	3	16	9	48	10	33	11	18	12	3
7	36	8	21	9	6	9	51	17	10	36	11	21	12	6	12	51
8	24	9	9	9	54	10	39	18	11	24	12	9	12	54	1	39
9	12	9	57	10	42	11	27	19	12	12	12	57	1	42	2	27
10	0	10	45	11	30	12	15	20	1	0	1	45	2	30	3	15
10	48	11	33	12	18	1	3	21	1	48	2	33	3	18	4	3
11	36	12	21	1	6	1	51	22	2	36	3	21	4	6	4	51
12	24	1	9	1	54	2	39	23	3	24	4	9	4	54	5	39
1	12	1	57	2	42	3	27	24	4	12	4	57	5	42	6	27
2	0	2	45	3	30	4	15	25	5	0	5	45	6	30	7	15
2	48	3	33	4	18	5	3	26	5	48	6	33	7	18	8	3
3	36	4	21	5	6	5	51	27	6	36	7	21	8	6	8	51
4	24	5	9	5	54	6	39	28	7	24	8	9	8	54	9	39
5	12	5	57	6	42	7	27	29	8	12	8	57	9	42	10	27
6	0	6	45	7	30	8	15	30	9	0	9	45	10	30	11	15
VVeſt.		wbu		wnw		nwbw		☽	nw		nwbu		nnw		nbw	

The use of thees Tables.

When you wyll know the *full Sea*, seke out the name of the place, where you desyre the ful water, in the head of the tables: Or learne the pointes of the cõpas there noted: Or if you lyke, know of some Mariner, what *Moone* maketh a full Sea there: a *South west* or *South Moone*. &c. Then the *age* of the *Moone* founde vnder the place or poynt of the compasse, sheweth in ryght order the *houre* & *Minute* of the *ful water*. The *ebbe* then is manifest. *Of Ebbyng and Flowyng.*

Ensample.

I desyre to knowe the full water at *London bridge*, the yeare of our Lorde 1555. the 1st date of *Februarie*. I fynde by rules before put forth, the 6 daye of *Februarie*, the yeare aforesayde, the *Moone* to be 14 daies olde. I see also vnder the title where *London* is S W. whiche letters signifie that a South west *Moone* maketh a *ful Sea* there: and that is at 2 of the clocke, and 12 minutes past. This is well perceaued in the first *Table* before put fourth, if you rũne down to the 14 day of the age of the *Moone*, vnder Lõdon title.

A Note of the houre of the daye and nyght.

The ingenius may gather nere about the houre of the daye & nyght, by the *Moone*: cõsideration had of the poyntes in those *Tables* of tydes before noted. For the houre is orderly put vnder the poyntes of the compasse.

Euery parte or poincte containyng 11 degrees and $\frac{1}{4}$: this compasse is well figured nere about the *Centre* in the instrument folowyng for the nyght houre, because ye may by it haue a delectable large vse of thees tyde tables.

How by the first of the tide tables, ye may readly knowe when the Moone cometh unto the South, when she riseth and setteth: with her continuaunce on the earth.

Seke the age of the *Moone* (as is opened) then resorte to the first *Tide table* lokyng out that age there: So vnder the *South* poinct in right order the houre appeareth, when she cometh vnto the *South*. The hath she spent half that arcke that the *Sunne* wold haue had in that *Signe*, whiche pulled away, sheweth the rysing: that half arcke also added to her coming vnto the *South* declareth her going down. The arcke then that the *Sunne* would haue had in the *Signe*, is her continuaunce on the earth.

A Table at all times plainly and briefly declaring, The breake of the daye: the houre and minute of the Sunne rysing. the iust length of the daye: the length of the nyght also: the very minute of the Sunne setting: and the Twylight.

Dayes.	Monethes	Break of the day.	Sunne ryssinge.	Lengthe of the day	Lēgthe of the night	Sunne settinge.	Lyȝ-lyghte.	Dayes.	Monethes.
		H. M.	H. M.	H. M.	H. M.	H. M.	H. M		
10		6 0	8 11	7 37	16 23	3 49	6 0	10	
20		5 58	8 10	7 40	16 20	3 50	6 2	1	
1		5 54	8 0	8 0	16 0	4 0	6 6	20	
10		5 44	7 49	8 21	15 39	4 11	6 16	10	
20		5 35	7 34	8 52	15 8	4 26	6 25	1	
1		5 15	7 13	9 34	14 26	4 47	6 45	20	
10		5 0	6 56	10 8	13 52	5 4	7 0	10	
20		4 50	6 36	10 47	13 13	5 24	7 10	1	
1		4 20	6 19	11 22	12 38	5 41	7 40	10	
10		4 0	6 1	11 58	12 2	5 59	8 0	10	
20		3 40	5 41	12 37	11 23	6 19	8 20	1	
1		3 8	5 18	13 23	10 37	6 42	8 52	20	
10		2 40	5 1	13 57	10 3	6 59	9 20	10	
20		2 10	4 43	14 33	9 27	7 17	9 50	1	
1		1 30	4 25	15 9	8 51	7 35	10 30	20	
10		0 30	4 12	15 35	8 25	7 48	11 30	10	
20			4 0	15 59	8 1	8 0		1	
1			3 51	16 17	7 43	8 9		20	
10			3 48	16 23	7 37	8 12		10	
		H. M.	H. M.	H. M.	H. M.	H. M.	H. M.		

Cōtinuall day.

Day continuall.

Ian. || Febr. || Mar. || Apr. || May. || Iun. || Iul. || Aug. || Septē. || Octo. || Nouē. || Dece. ||

Minutes to be added to the Lēgth of the daye.

The vse of this table.

Consider the Moneth and day, that ye require any of the toforesayd: and seke in this Table that same under the titles: procede in ryght ordre, so ye haue your purpose. If the very day be not founde, take the neareste of your table. ☞ Or by proportion the truthe is geuen: whiche all by Ensample folowyng shall playnly be declared.

Ensample.

The first daie of *Ianuarie*, I desire all the aforesayde: that is, *the breake of the daie*: the very minute of the *Sunne rysing*: the *length of the daie*, and also of the *nyght*, the *Sunne goyng downe*, and the *twylight*. I fynde on the ryght hande of *Ianuarie*, these numbres runnyng doune, 1. 10. 20. whiche declare the first daye, the tenth daye, and twenty of that Moneth. Nowe to my purpose, I require the *breake of the daye. &c.* The first of *Ianuarie*, in the *Table*, vnder that title, on the ryght hande of this fygure 1. I see 5. houres, and 54. minutes, that is 6 of the clocke wantyng 6 minutes. The *rysing* of the *Sunne* in that order, is iust at 8 as this figure 8 there declareth vnder that title in the rowe. The *length of the daie*, 8 houres: the *length of the nyght* 16 houres: the *Sunne settyng* is at 4: the *twilight*, at 6 and 6 minutes. Euen thus for the tenth day, and also for the twenty of that Moneth, in the rowes accordyng to their titles in the head of my *Tables*.

Howe to worke by proportion, when the daye is not founde.

I Would knowe all thaforesayde, the first daye of *Ianuarie*. I take for ensample the *breake of the daie*. Remember the first daye of *Ianuarie*, I dyd fynde the *breake*, to be at 5 of the clocke, and 54 minutes: and the tenth daye I may fynde the *breake of the daie* to be at 5 and 44 minutes, that is 10 minutes lesse. I see nowe 10 daies do geue me 10 minutes lesse. I saye therfore (by *proportion*) the fifth day must geue 5 minutes lesse then 5 houres 54 minutes: which is 5 houres, 49 minutes my requeste. Thus for all the other titles.

The houre of the nyght, by the Moone: is otherwyse founde then before and that diuersly.

How by the Moone, the night houre is founde.

The *houre* of her rysyng knowen, as is opened, & a marke then made where she shadoweth, in any true fixed or mouable *Sūne Dial*, the houres and minutes from that marke all the nyght after, are to be added to her rysyng. If more then 12. surmounte, onely that aboue 12 sheweth the true houre and minute. If at the rysyng she may not be sene, then by the *Sunne* rysing, in that very *Signe* (with the helpe of this *Almanack*) you may perceiue what houre she would note at her rysing. Therfore from that marke counte.

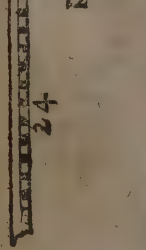
An other waye.

VVhen the Moone is at the full, looke what *houre* her shadowe sheweth in any *Dial*, that is the houre of the nyght. After she be past the full 28 houres, ye must adde one *houre*: But afore the full, pull one from that ye fynde in the *Dial*. If twyse 28, two *houres* &c. So haue ye the *houre* of the nyght.

How the houre of the day, by Ryght shadowe, that is by any thyng directly standyng up, is knowen: and by Squyre shadowe also.

FIrst it behoueth you to haue a *Staffe*, or any other thing diuided in 12 equal partes. Whē ye list to haue the houre, Set vp directly your diuided *Staffe*, on a playne leuell grounde, or bourde &c. Note the iust length of that shadowe, what partes it contayneth. With those enter your Moneth in the Peculiar *Kalender* folowyng: beholdyng dilygently vnder the name of that Moneth, the small enclosed *Tables*: considering well, whiche of those smal *Tables* are nerest vnto your day: and that iudge by the Signe, or daye there noted. That table serueth your purpose: where you must loke out the partes of the shadow afore founde, or nere vnto it: vnder or ouer the whiche the houre is set, before or after noone. Note that *two prickes* there signifie half a part more than is noted: *one pricke*, half a part lesse. Here it is also to be noted, that euery *Table* hath within, *two rowes of figures*: the vpper is for the *Staffe*, the other for the *Squyre shadowe*. And whatsoeuer is before sayde of the one, that same is ment here of the other, sauyng of the *Composition*.

The *Squyre* must be diuided from the inward angle to the ende of one side, in 12 equal partes: euen so from that angle the other side into 24 lyke partes, as this figure sheweth.



These to the wytty suffyse.

The Composition of an Instrument, for the houre of the nyght: whiche is also a perfect Dial for the daye, and excellent for the Mariner.

THe takyng of an *Altitude* supposed, I could exactly inse we (and that without an *Instrument*) satisfie. For wāt of that knowledge, make vpon a playne bourde, or rather fine plate a Circle: the bigger the better, part it into 360 portions, thus.

The

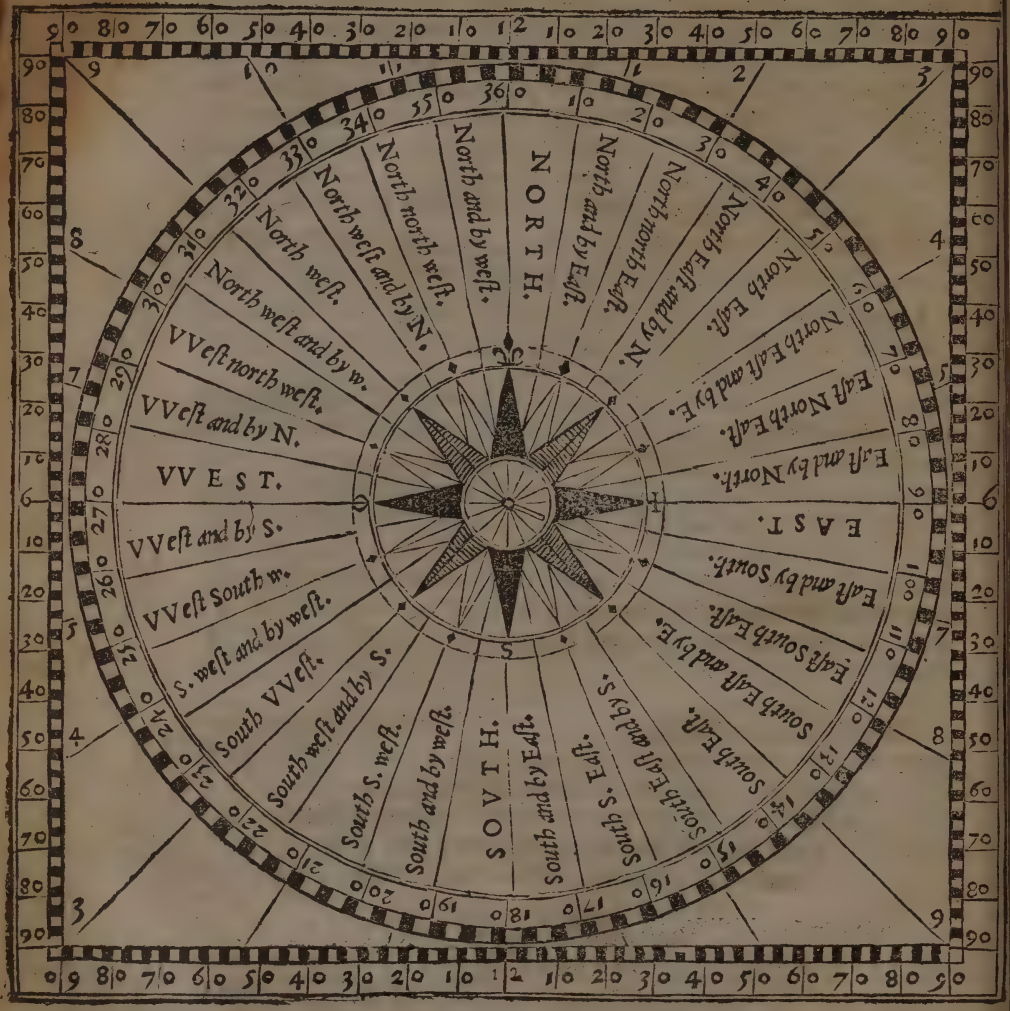
The Circle made diuide it in 6 not mouing the compasse: then euery of them in 6, and eche of those last in 10: so haue you 360. partes. Then *Character* it, beginning at the *North* thus. 10. 20. 30. &c. (as in the figure going) toward the *East*, & ending at the *North* with 360. Nowe laye a ruler on the centre, euen with some diuisiõs, drawing thorowe to the extremes of the Circle a lyne. Then crosse that with an other. These two must diuide your Circle in 4 equal partes: which lynes shew the very *East*, *west*, *North*, & *South*, when by a *Meridian* or *square Dial*, with a nedel rectified, they are placed.

Now to ende, set a smal streight wyre, a foote or more lõg with a Vane in the toppe, plũme vpryght in the Centre: & there fasten it.

Thus this *Instrument* is finished, to be fixed about your house, *equidistant* or leuil with the *Horizon*: hauing a nedel if ye lisse, in it, trewly to plage it, when and where you wyll.

That it may be also a *Dial* for the daye, you must pull streyght lynes from the extremitie of your Circle outwarde, to euery tenth part: deckyng them with *Characters* conuenently as ye se the figure, your Rule kepyng the Centre. Thus whan the *Sunne* shyneth, the shadowe of the wyre, sheweth the true houre: the Vane, the *wyndes* &c. beyng trewly plaged, well placed, and rered, as followeth. The poinctes of the Cũpasse are drawne within the circle, and about the centre. Euery poynct contaynyng 11 degrees and $\frac{1}{4}$. The *Instrument* as ye see is inclosed rounde about with a *Square*: for the Maryners ayde.

Truely few wordes can not expresse the excellẽcie of this *Square* for their vse: No otherwyse to be opened then *Learned Gemma* hath inuented and playnly declared: Here omitted of me, not fully occasioned now to wryte that way. I haue appoynted a meter place for this and lyke matter. In the meane tyme I am ready in worde and dede, to further the desierfull in this or any other.



Beholde this Instrument for navigation moste commodious, the use of the whiche, is here onely put forth accordyng to my Invention.

The ryght reryng and placing of the Dial tofore mencioned.

IFt vp handesomely your *Instrument* or Dial towarde the North in some mete place, the syde of a squyre lyng on it, vntyll the plummet and lyne, centred in the extreme vpper part of the other syde of your squyre lyke long, cut all that squyre syde, which lyeth on your Instrument, the fifth part onely except. *In wynter the contrarie superficies or playn: sheweth the day houre frō ♎ to ♈.*

Then moue your Instrumēt, hyther and theder, this or that waie, vntyll the shadowe of the wyre fall vpon the houre of the daye, kepyng diligently your heyght before. Your Dial thus fired declareth all the yeare long, the exacte houre and partes thereof. No Dial in truth excelleth this. Haue in remembraunce, that this instrument must lie leuel, nothyng at all rered, for the houre of the nyght by sterre.

To get the exacte houre by two Sterres of the first lyght, with an Instrument or Circle, tofore diuided, first of me inuented, calculated and practised.

THE Instrument, equidistantly set and plaged, as is declared in the composition, ye ought to laye the edge of a ruler vnto the wyre, the other nether ende touching the instrument, mouing here and there, styll touchyng the wyre, vntyll eyther Sterre doth offer it selfe with that edge, and that by the Judgement of the eye. Then put downe discretely your ruler euer touchyng the wyre, the hinder ende not moued, obseruing how many partes are cut from the North, to the edge of the ruler. Enter with them the Peculiar *Kalendar* folowyng: seekyng out your *Moneth*, placed in the myddes of euery *Table*: then the daye of that moneth must be there founde. *Fit filo aut digito, absque regula exactißime.*

Note that, euery table hath on the sydes, the daies thus ordered 1. 5. 10. 15. 20. 25. 30. Knowe that order or rowe of sygures, whiche is right against, or nerest your day, serueth the turne. The numbre or partes before cut by the *Ruler*, and now founde in that rowe of your table, sheweth the precise houre. If it be to litle, that houre ouer the head or vnder is not yet come: if contrary, it is past.

Howe these two bryght Sterres, beyng of the fyrst lyght are founde: the one called Aldebaran or Oculus Tauri, the other Alrauech.

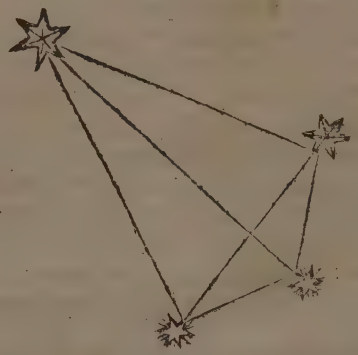
By what meanes these Sterres are knowē.

THE beſt waye is thus: The *Moneth* and *daie* knowen, with the trewe *houre* of the *nyght*, entre your Table, conſidering that *Moneth* and *daie*: obſerue what partes belonge there to that *Sterre* and *houre*. Then reſort to your *Inſtrument*, layeng the edge of your ruler, as many partes from the *North Eaſtwarde*, circumſpectlye lyſtyng vp that edge, cloſe by the wyre: ſo the fayre *Sterre* ſhyneth euen with that edge.

Or thus groſſely.

An other waye to finde them.

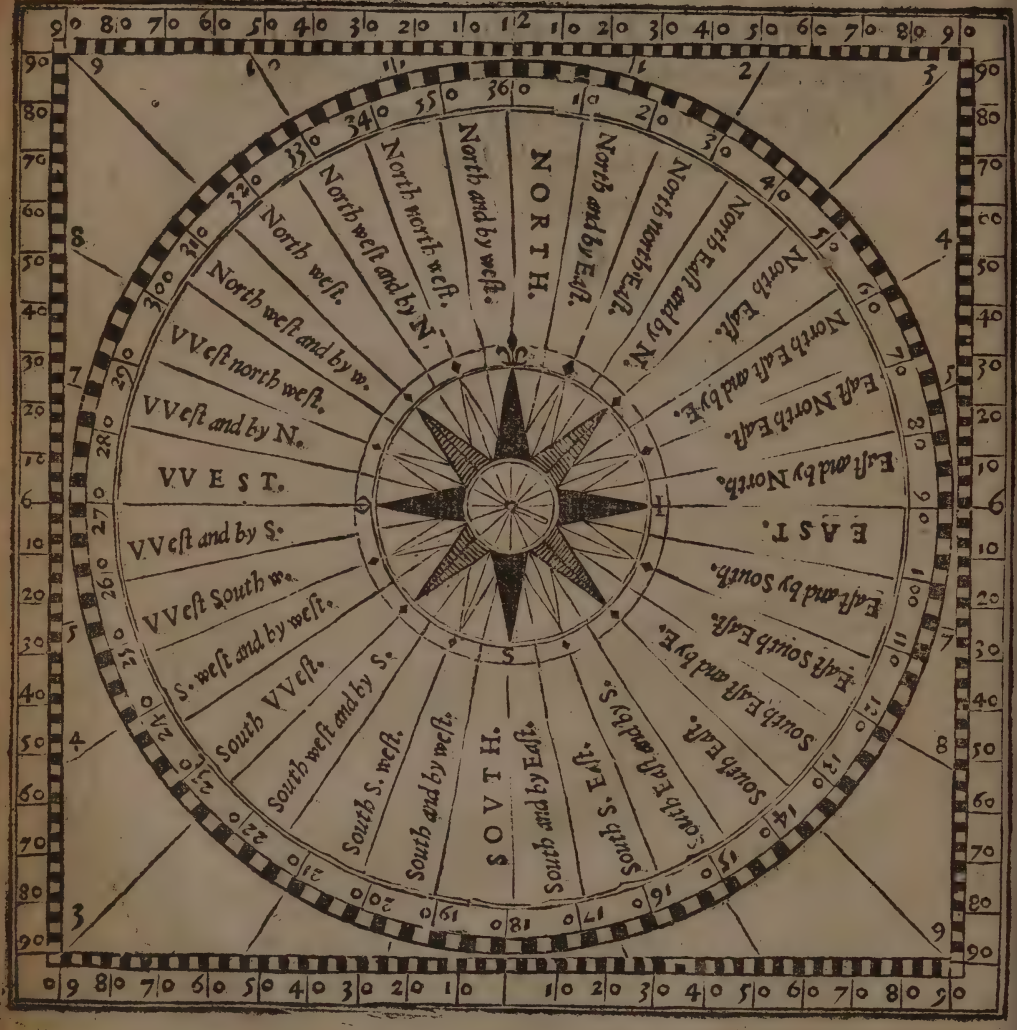
Oculus Tauri is euer a meaterodde, and a half to the eie vnder the 7 *Sterres*, and somewhat *North* of them in the ryſing. *Alrauech* is contrarie to him plaged, accompanied with thre litle dimme *Sterres*, a rodde from him by the iudgement of the ſight: in the forme of a *Triangle* thus.



Beholde this figure, the great Sterre doeth repreſente Alrauech: the other thre, the Triangle: whiche is placed alwayes with him. But commonly there doth appeare but one Sterre of the Triangle.

NOVV ENSVETH THE NEDEFVL
necessary, peculiar Kalender tofore mencioned: with Instrumentes belonging thereto. The composition, and appliance of the sayd Tables, with the pleasaunt vse of them, are before sufficiently opened: therefore further declaration here, might seme superfluous.

A neceſſary Inſtrument, to finde exactely the houre of the daye and nyght, diuerſe wayes, with helpe of this Peculiar Kalender.



For the nyght. From midnight vnto day. From euening to midnight.

	5	6	7	8	9	10	11	12	
1	108	123	143	165	190	213	59	79	
5	112	129	150	172	197	220	63	74	Oculus Tauri.
10	118	136	158	183	206	227	68	78	
15	123	144	166	192	214	233	71	81	
20	130	151	173	199	220	239	75	86	Alramech.
25	137	158	183	207	228	244	79	90	
30	144	165	191	213	233	249	82	93	

Ianuary hath. xxxi. dayes.

81	93	105	121	143	168	196		1
86	96	110	127	151	177	205		5
89	101	116	135	160	183	214		10
93	105	122	143	169	198	223		15 Alramech.
98	111	128	152	179	207	230		20
101	116	135	159	190	216	236		25
106	121	144	168	198	222	242		30

1 2 3 4 5 6 7

For the day.

10 Staffe 36: 39 49: 83 550 0 shad.
Squire 4 40 3 2. 0 0 shad. 0

H 0 1 2 3 4 5

20 Staffe 32. 34 42 65: 209 0 shad.
Squire 4: 4 3: 2 1. 0 shad. 10 gr.

H 0 1 2 3 4 5

30 Staffe 27: 29. 35: 52 119 0 shad.
Squire 5 5. 4 3. 1: 0 shad. 20

H 0 1 2 3 4 5

Alramech.

Oculus Tauri.

For the nyght.

From midnight vnto day.

From euening to midnight.

For the nyght.

	6	7	8	9	10	11	12	
1	169	194	216	62	73	83	95	
5	174	199	222	64	75	86	98	
10	184	207	228	68	79	90	102	
15	191	214	234	71	82	94	106	
20	198	220	238	75	86	98	111	
25	205	226	243	78	88	100	116	
30								

February hath. xxviii. dayes.

1	108	124	164	172	201	225		
5	111	129	153	180	207	231		
10	117	136	162	190	216	237		
15	122	144	169	198	223	243		
20	128	152	178	206	230	248		
25	134	159	188	214	236	252		
30								
	1	2	3	4	5	6		

From midnight vnto day.

Alramech.

For the day.

8 Staffe / Squire

	12	11	10	9	8	7	H
Staffe	23:	25	30	42	80.	6896	
Squire	6	6.	5.	3:	2.	0	

shad. / shad.

H 0 1 2 3 4 5

18 Staffe / Squire

	12	11	10	9	8	7	H
Staffe	20:	21:	23:	34:	61:	226	
Squire	7	7.	6.	4	2	1.	

shad. / shad. } 10

H 0 1 2 3 4 5

28 Staffe / Squire

	12	11	10	9	8	7	H
Staffe	17:	18:	22.	29.	45	112	
Squire	8	8.	6:	5	3	1	

shad. / shad. } 20

H 0 1 2 3 4 5

} gr. ☽

From euening to midnight.

	7	8	9	10	11	12	
1	59	70	81	93	105	120	
5	62	74	84	95	108	125	
10	65	76	87	99	113	131	
15	69	80	91	103	118	138	
20	72	83	94	107	123	146	
25	75	86	98	112	129	153	
30	80	90	102	117	136	161	

For the nyght.

Marche hath. xxxi. dayes.

Alramech.

142	168	196	222	241			1
147	173	201	227	245			5
155	183	210	232	250			10
163	192	218	238	255			15
171	200	225	243	259			20
180	208	232	249	262			25
191	216	237	254	267			30

From midnight vnto day.

1 2 3 4 5 6

For the day.

12 11 10 9 8 7 H

11 Staffe: 15 | 16 | 19 | 24: | 37: | 74. | | shad.
Squire: 9: | 9 | 8. | 6 | 4 | 2 | | shad. } 0

H 0 1 2 3 4 5

12 11 10 9 8 7 6 H

21 Staffe: 13 | 14 | 16 | 21 | 30: | 54: | 221: shad.
Squire: 11 | 10: | 9. | 7. | 5. | 2: | 1. shad. } 10 gr. V

H 0 1 2 3 4 5 6

12 11 10 9 8 7 6 H

31 Staffe: 11: | 12 | 14: | 18: | 26 | 43: | 112. shad.
Squire: 12: | 12. | 10 | 8. | 5: | 3: | 1: shad. } 20

H 0 1 2 3 4 5 6

Alramech.

For the night.

Alramech.

From midnight vnto day.

From euening to midnight.

	8	9	10	11	12				
1	92	104	118	138	164				
5	94	107	123	145	171				
10	98	111	129	153	180				
15	101	117	135	160	189				
20	106	122	144	168	198				
25	111	128	152	178	207				
30	117	135	159	189	215				

Aprile hath. xxx. dayes.

1	193	218	239	255					1
5	199	225	244	258					5
10	207	231	248	262					10
15	215	236	253	266					15
20	223	243	257	270					20
25	230	248	262	274					25
30	236	252	266	278					30
	1	2	3	4	5				

For the day.

10 Staffe 10 | 11. | 13. | 16: | 23 | 36 | 76 shad.
Squire 14 | 13: | 11 | 9. | 6 | 4 | 2 shad. } 0

H 0 1 2 3 4 5 6

21 Staffe 9 | 9: | 11: | 15 | 21. | 31: | 58. | 267: shad.
Squire 16 | 15 | 12: | 9: | 7 | 4: | 2: | 1. shad. } 10 gr ☌

H 0 1 2 3 4 5 6

31 Staffe 8 | 8: | 10: | 14. | 19 | 28 | 49. | 139: shad.
Squire 18 | 17. | 14. | 10: | 7: | 5 | 3 | 1 shad. } 20

H 0 1 2 3 4 5 6 7

	8	9	10	11	12		
1	117	136	160	190	216		
5	120	142	168	195	222		
10	128	152	178	206	230		
15	134	159	188	214	235		
20	143	168	196	222	241		
25	151	177	205	230	248		
30	160	189	215	236	253		

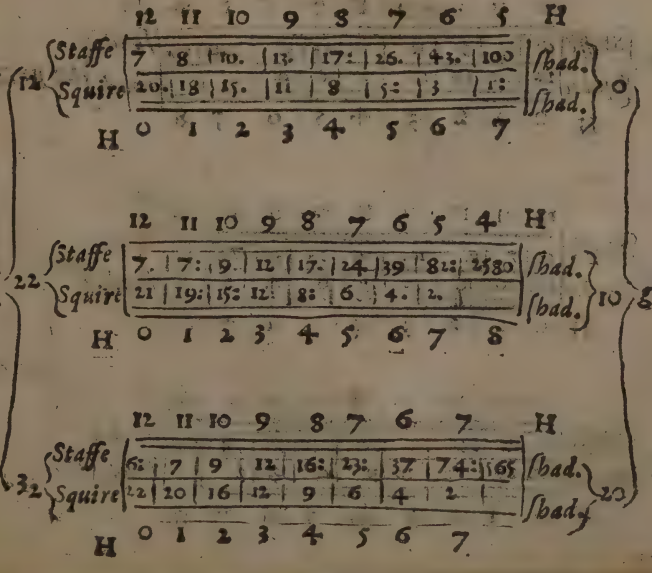
For the night. From euening to midnight.

May hath: xxxi. dayes. Alrimech.

1	237	253	257	278			
5	241	256	269	280			
10	247	261	273	285			
15	252	266	278	288			
20	257	270	281	292			
25	262	274	285	296			
30	266	278	288	300			

From midnight vnto day. From euening to midnight.

1 2 3 4 5



Alramech.

For the nyght.

From midnight vnto daye.

From euening to midnight.

For the nyght.

	8	9	10	11	12				
1	161	191	216	237	254				
5	169	197	223	242	257				
10	180	207	231	249	262				
15	191	216	237	254	267				
20	199	224	243	258	271				
25	207	231	249	262	275				
30	216	237	254	267	279				

Iune hath. xxx. dayes.

1	267	279	290	301					
5	270	282	292	303					
10	274	285	297	308					
15	279	290	301						
20	283	293	304						
25	286	297	308						
30	290	301	82						
	1	2	3	4	5				

For the days.

		12	11	10	9	8	7	6	5	4	H	
1	Staffe	6:	7	9	12	16:	23	37	74:	565	shad.	20 gr. H
	Squire	22	20	16	12	9	6	4	2		shad.	
	H	0	1	2	3	4	5	6	7	8		
12	Staffe	6:	7	9	12	16	23	36:	72	45:	shad.	0 gr 6
	Squire	22:	20:	16	12	9	6	4	2	0	shad.	
	H	0	1	2	3	4	5	6	7	8		
23	Staffe	6:	7	9	12	16	23	37	74:	565	shad.	10
	Squire	22	20	16	12	9	6	4	2		shad.	
	H	0	1	2	3	4	5	6	7	8		

From euening to midnight.

	8	9	10	11	12		
1	219	239	255	268	280		
5	225	244	259	272	283		
10	233	250	264	275	286		
15	238	254	267	279	290		
20	243	258	271	283	293		
25	249	262	275	286	297		
30	254	267	279	290	300		

Alrámech.

Iuly hath.xxxi.dayes.

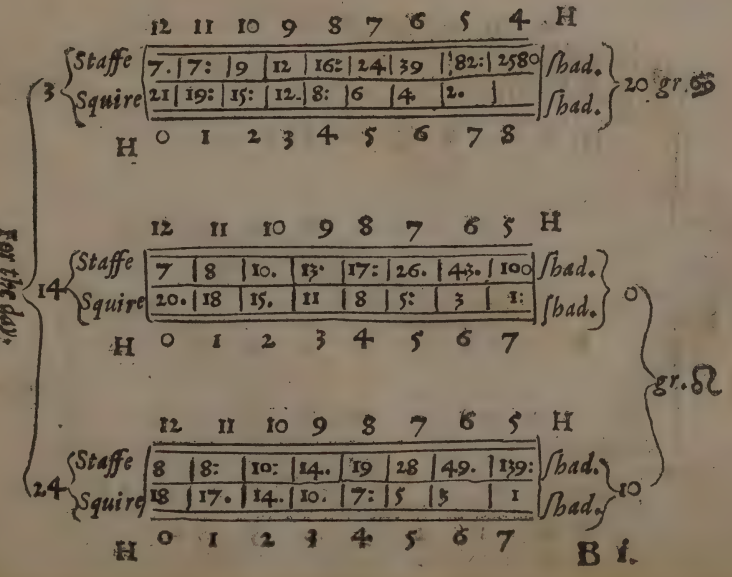
For the night.

From midnight vnto day.

1	290	302	83				
5	293	304	86				
10	297	79	90				
15	301	82	93				
20	304	86	98				
25	308	89	101				
30	82	93	106				
	1	2	3	4	5		

Alrámech:

Oculus Tauri.



Alraæch.

Oculus Tauri.

For the nyght.

From euening to midnight.

	8	9	10	11	12				
1	255	267	279	291	302				
5	259	272	284	294	304				
10	263	275	286	297	79				
15	267	279	290	300	81				
20	270	282	292	303	86				
25	274	285	296	308	88				
30	278	288	299	81	92				

Auguſt hath.xxxi.dayes.

1	82	94	107	122	141				
5	86	98	111	126	146				
10	89	102	116	132	154				
15	93	105	119	138	160				
20	96	110	125	144	167				
25	100	114	130	152	174				
30	104	118	136	158	183				
	1	2	3	4	5				

From midnight vnto daye.

Oculus Tauri.

For the day.

3 Staffe 9 | 9: | 11: | 15 | 21. | 31: | 58: | 267: | ſhad.
Squire 16 | 15 | 12: | 9: | 7 | 4: | 2: | 0: | ſhad. } 20gr. ♌

	12	11	10	9	8	7	6	5	H
Staffe	9	9:	11:	15	21.	31:	58:	267:	ſhad.
Squire	16	15	12:	9:	7	4:	2:	0:	ſhad.
H	0	1	2	3	4	5	6	7	

14 Staffe 10 | 11. | 13. | 16: | 23 | 36 | 76 | ſhad.
Squire 14 | 13: | 11. | 9. | 6 | 4 | 2 | ſhad. } 0

	12	11	10	9	8	7	6	H
Staffe	10	11.	13.	16:	23	36	76	ſhad.
Squire	14	13:	11.	9.	6	4	2	ſhad.
H	0	1	2	3	4	5	6	

24 Staffe 11: | 12 | 14: | 18: | 26: | 43: | 111: | ſhad.
Squire 12 | 12 | 10 | 8. | 5: | 3: | 1: | ſhad. } 10

gr ♏

	12	11	10	9	8	7	6	H
Staffe	11:	12	14:	18:	26:	43:	111:	ſhad.
Squire	12	12	10	8.	5:	3:	1:	ſhad.
H	0	1	2	3	4	5	6	

For the night. From midnight vnto day. From euening to midnight.

	7	8	9	10	11	12	
1	267	279	290	301	82	93	
5	270	281	292	303	85	96	
10	273	285	296	307	88	100	
15	276	287	298	80	91	104	
20	280	291	302	83	94	108	
25	284	295	305	87	99	112	
30	287	297	80	91	103	117	

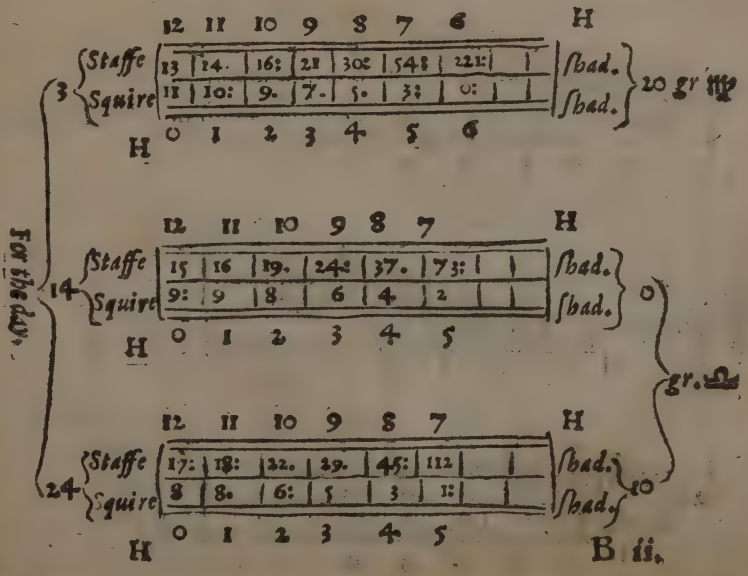
Alrimech.

Oculus Tauri.

September hath.xxx.dayes.

1	106	120	139	161	186		
5	109	124	144	166	192		
10	113	129	150	173	199		
15	117	135	155	180	204		
20	123	142	164	189	212		
25	128	149	171	196	219		
30	134	155	180	204	225		
	1	2	3	4	5	6	

Oculus Tauri.



Alramech.

Oculus Tauri.

For the nyght.

From euening to midnight.

	6	7	8	9	10	11	12	
1	277	288	298	80	92	104	117	
5	279	290	302	82	94	107	122	
10	284	294	305	86	98	111	127	
15	286	68	79	90	102	116	133	
20	290	71	82	93	106	121	140	
25	294	75	86	98	111	126	146	
30	297	79	90	102	116	132	154	

October hath.xxxi.dayes.

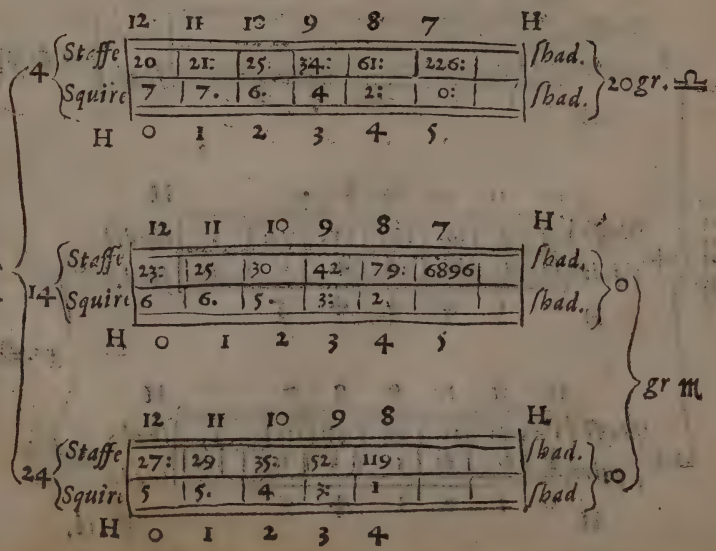
	135	157	181	205	226	243		
5	141	162	188	210	231	247		
10	147	170	195	218	237	252		
15	154	178	202	225	242	256		
20	162	186	210	230	246	260		
25	169	194	217	235	251	264		
30	177	202	224	241	255	268		
	1	2	3	4	5	6		

Oculus Tauri.

From midnight vnto daye.

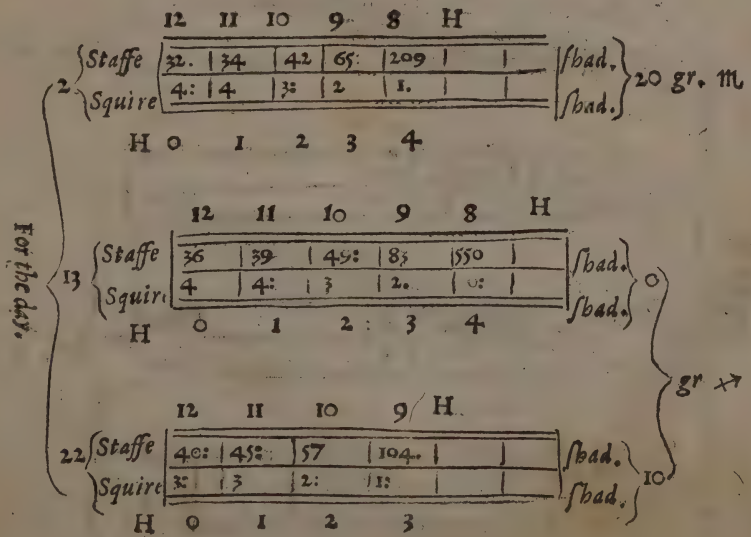
For the nyght.

For the day.



	5	6	7	8	9	10	11	12	
1	287	298	80	92	104	117	135	156	
5	290	302	82	94	107	122	140	163	
10	294	305	87	98	111	127	147	171	Alramech.
15	298	80	91	103	117	135	156	180	Oculus Tauri.
20	303	83	95	108	123	142	165	189	
25	307	88	100	113	129	150	173	198	
30	81	92	104	119	136	158	183	206	
	Nouember hath. xxx. dayes.								
1	182	205	226	243	257	270	281	292	
5	188	211	231	248	261	273	285	296	
10	196	218	237	252	265	277	288	000	
15	204	225	243	257	269	281	292	000	Oculus Tauri.
20	213	232	248	261	274	285	297	000	
25	220	238	253	266	278	290	127	000	
30	227	244	258	270	282	293	135	000	
	1	2	3	4	5	6	7	8	

For the nyght. From midnight vnto day. From euening to midnight.



Oculus Tauri.

For the night.

Oculus Tauri.

Alramech.

	5	6	7	8	9	10	11	12	
1	81	92	105	119	136	153	183	207	
5	84	96	109	124	144	166	192	214	
10	89	101	115	132	153	175	201	222	
15	93	105	120	139	161	186	209	230	
20	98	111	127	147	169	195	217	236	
25	102	116	133	154	177	202	224	242	
30	107	122	141	163	188	211	231	248	

From entring to midnight.

December hath.xxxi.dayes.

From midnight vnto day.

228	244	258	271	283	293	135		1
234	249	263	275	286	122	144		5
240	255	267	279	291	129	153		10
246	260	272	284	295	138	163		15
251	264	276	287	124	147	174		20
256	268	280	291	132	155	184		25
261	273	285	296	140	165	194		30
1	2	3	4	5	6	7		

For the day.

12 11 10 9 H

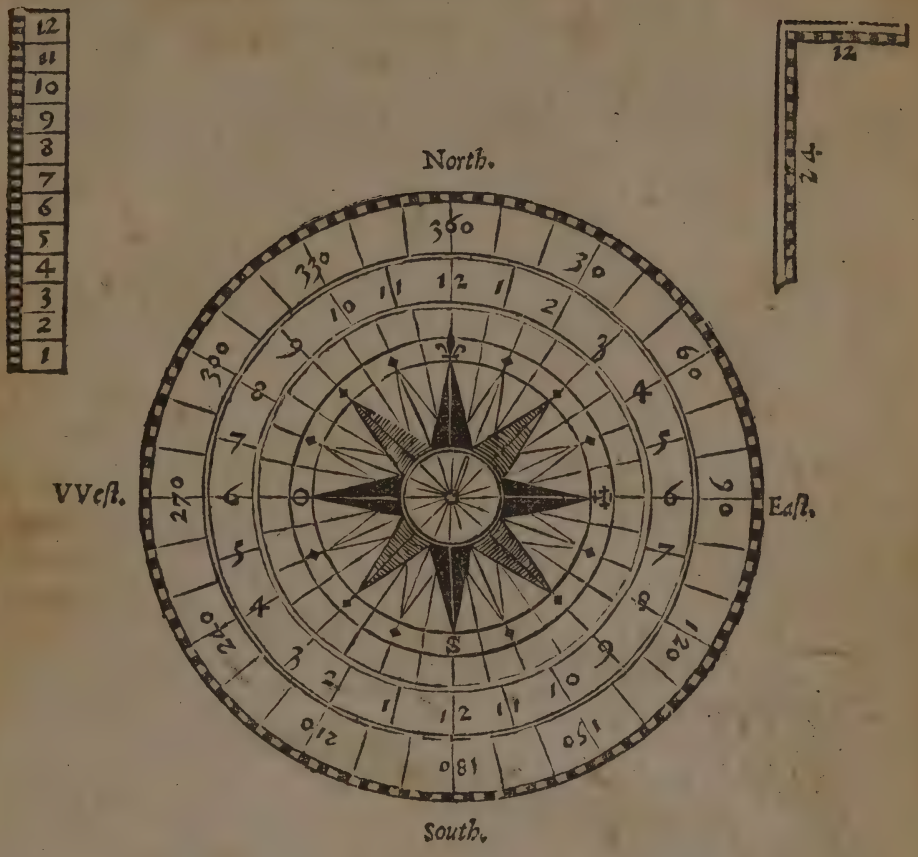
2 Staffe 43: 47 62: 122: shad.
Squire 3: 3 2 1 shad. 20 gr. xx

12 Staffe 45. 49. 65. 131: shad.
Squire 3 3 2 1 shad. 0

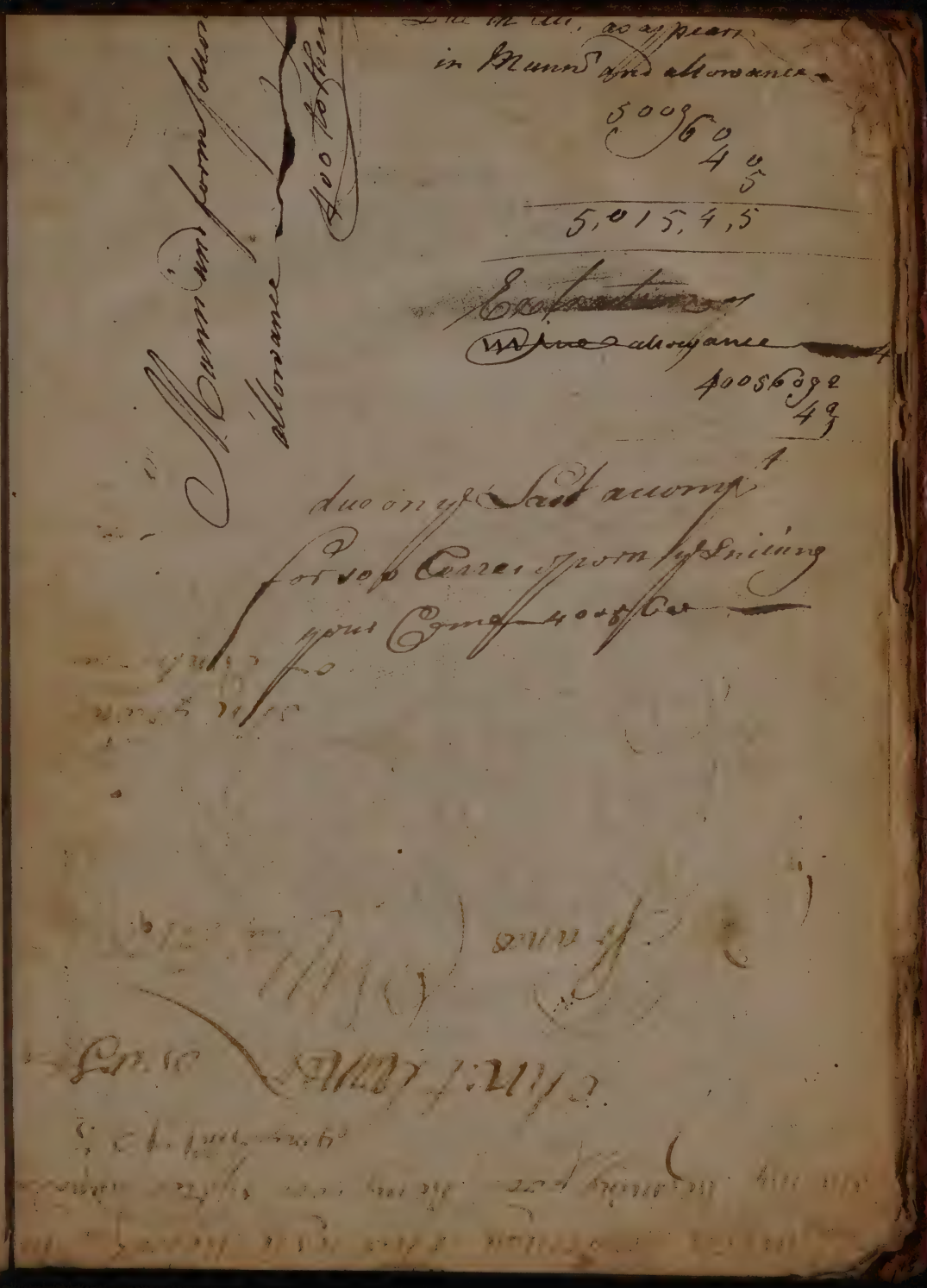
22 Staffe 43: 47: 62: 122: shad.
Squire 3: 3 2: 1 shad. 10 gr. x

31 Staffe 40: 45: 57 104 0 shad.
Squire 3: 3 2: 1: shad 20

H 0 1 2 3



Thus is endid the Peculiar Kalendar, very commodious for the day and nyght houre. I haue here adioyned the Instrument without the Square, whiche may sufficie for the whole use of the toforesayde Kalendar, with the healpe of the Squire and Staffe.



I May not here omitte a *Kalendar Generall* deuided in two partes, wherof the first conteyneth six Monethes, from *Ianuarie* to *Iune*: The seconde other six monethes from *Iuly* to *December*. In this *Kalendar* are set forth the Festiual daies, the entryng of the *Sunne* in the Signes *celestiall*, the euil dayes noted with one *Pricke*. For a further declaracion of those euill dayes, reade this folowyng.

The yeare hath. xxciii. euyll dayes generall for euer.

IANVARIE hath eyght suche daies, the.j. the.ij. the iij. the.v. the. x. the. xv. the. xvj. the. xxix. Drinke whyte wyne this Moneth.

Februarie hath thre dayes, the. vij. the. x. the. xvij. these not so euil, the xxvj. the. xxvij. the. xxviij. Eate no potage of okes or malowes: They are venemous.

Marche thre daies, the. xv. the. xvj. the. xix: this not so euill, the xxviij. daie. This moneth, all swete meates are good.

April two dayes. the. xvj. the. xxj: these not so euil, the. vij. the. viij the. x. the. xx. Use hote meates, of lyght digestion.

Maie thre dayes, the. vj. the. xv. the. xx: these not so euill, the. ij. the. vi. Ryse early, and vse breakefast.

Iune two, the. iij. the. vj: these not so euill, the. x. the. xv. the. xxj Sage & lettuse are good to eate. Colde water fasting hurteth not

Iulie two daies, the. xv. the. xx.. Abstayne from carnalitie.

August two daies, the. xix. the. xx: these not so euill, the first, the xxix the. xxx. It hurteth not to abstayne from potage, and all hoote meates, and drinkes of spicerie.

Septembre two daies, the. vj. the. vij. these not so euill, the. ij. the iij. the. xxj. the. xxij. Eate good frupte.

October one daie, the. vj: these not so euil, the. iij. the. xvj. the. xxiiij. Good wyne is wholsome this Moneth.

November two daies, the. xv. the. xix: these not so euil, the. v. the. vi. the. xxvij. the. xxix. Blede not.

December thre daies, the. vj. the. vij. the. ix: these daies not so euil, the. xv. the. xv j. the. xxj. Blede not ouer muche. Warme not thy legges at the fyre.

¶ The first part of the generall Kalendar: from Ianuarie to Iune.

Ianuarie.	Februarie.	March.	Daies	April.	May.	Iune.
:A Circūc.	d	d	1	g	b Phi. Iac.	e
:b	e Purifi.	e	2	A	c	f
c	f	f	3	b	.d	g
:d	g	g	4	c	e	:A
:e	A	A	5	d	f	b
f Epiph.	b	b	6	e	.g	c
g	c	c	7	.f	:A	:d
A	:d	d	8	.g	b	e
b	e ☉ in ♓	e	9	A	c	f
:c	:f	f	10	.b	d	.g
d ☉ in ♒	g	g ☉ in ♈	11	c ☉ in ♉	e	A Barna.
e	A	A Spring.	12	d	f ☉ in ♊	b ☉ in ♋
f Hilar.	b	b	13	e	g	c Sūner.
g	c Valent.	c	14	f	A	d
:A	d	:d	15	g	:b	.e
b	e	:e	16	:A	c	f
:c	:f	f	17	b	d	g
d	g	g	18	c	e	A
e	A	:A	19	d	f	b
f	b	b	20	.e	:g	c
g	c	c	21	:f	A	d
A	d	d	22	g	b	.e
b	e	e	23	A Georg.	c	f
c	f Mat.	f	24	b	d	g Ioā bap.
d Cō. Pau.	g	g Anun.	25	c Marc.	e	A
e	.A	A	26	d	f	b
f	.b	b	27	e	g	c
g	.c	.c	28	f	A	d
:A		d	29	g	b	e Pe. Pa.
b		e	30	A	c	f
c		f	31		d	

The seconde part of the Generall Kalendar: from Iulie to December.

Iuly.	Auguſt.	Septemb.	Dayes	October.	Nouem.	Decem.
g	.c Pet. Vin.	f	1	A	d Om. ſã.	f
A	d	g	2	b	e Om. an.	g
b	e	.A	3	.c	f	A
c	f	.b	4	d	g	b
d	g	c	5	e	.A	c
e Dog beg.	A	:d	6	:f	.b	:d Nico.
f	b	:e	7	g	c	:e
g	c	f Nat. Ma.	8	A	d	f Cõ. ma.
A	d	g	9	b	e	:g
b	e	A	10	c	f	A
c	f	b	11	d	g	b
d	g	c	12	e	A	c ☉ in ♑
e	A	d	13	f	b ☉ in ♐	d wynter.
f ☉ in ♌	b ☉ in ♍	e ☉ in ♎	14	g ☉ in ♏	c	e
:g	c	f Herueſt.	15	A	:d	.f
A	d	g	16	.b	e	g
b	e Dog end	A	17	c	f	.A
c	f	b	18	d Luc.	g	b
d	:g	c	19	e	:A	c
:e	:A	d	20	f	b	d
f	b	.e Mathe.	21	g	c	e Tho. ap.
g Ma. mag.	c	.f	22	A	d	f
A	d	g	23	b	e	g
b	e Bartho.	A	24	.c	f	A
c Luc. Apo.	f	b	25	d	g	b N. at. do.
d	g	c	26	e	A	c Steph.
e	A	d	27	f	b	d Io. cuã.
f	b	e	28	g Si. Iud.	.c	e Innocẽ.
g	.c deco!. Io.	f Micha.	29	A	.d	f Tho.
A	.d	g	30	b	e Andr.	g
b	e		31	c		A

To the brief use of this generall Kalendar.

Ntre the Columpne where your *Moneth* is noted in the hedde, ye shall there fynde runnyng downe the Columpne the *Festiuall* dayes of that Moneth, the entre of the *Sunne* in the *Coelestial Signes*, the *Euil daies* pricked &c.

I woulde haue placed in this *Kalendar* the *Fayers*, *Termes* also, but that can not remayne continuall true: For those that ensue mouable Feastes are mouable, and therfore may haue no certayne place. For the *Termes*, note thees preceptes folowyng. The *Fayers*, shalbe declared by two *Tables* immediatly ensuyng this *Kalendar general*.

How to knowe the Termes.

KNowe therfore, that *Easter Terme* alwayes beginneth the 18 daye after *Easter*, rekening *Easter daye* for one: and endeth ths *Mondaye* next after the *Ascension daye*.

Trinitie Terme beginneth the *Friday* next after *Corpus Christi daye*: and endeth the VVednesdaye fourtennight after.

Michaelmasse Terme beginneth the 9 or 10 daye of *October*: and endeth the 28 or 29 of *Nouember*.

Hilarie Terme beginneth the 23 or 24 daie of *Ianuarie*: and endeth the 12 or 13 daye of *Februarie*.

A Table Contaynyng the Moneth Daye and Place, of the principal Fayers of Englande: to be augmented at pleasure in order folowyng.

Ianuary.

The 6 day at Bristow, at Salisberie. The first of Lent at Exeter

Februarye.

The 2 daye at Bathe. at Maydstone. The 14 at Feuersame. Ashwednesdaie, at Lychfelde. at Roystō. at Tamworth. The first mondaye in Lent, at Cisseter. at Abington. The 24 at Henly vpon Temmes. at Teukesbury.

Marche.

The 4 Sonday in Lent, at Stanforde. at Sudberie. The 5 Sondaie, at Grantam. at Salisburie. the Monday before our Lady daie, at Wylbych Palme euē. The 13 at Wye. The 25 at Northamptō. at Great Charte at Waulden.

Aprile.

The 5 day at Walyngforde. The 7 at Darbie. The 9 at Byckelworth. at Bylungworth. at Easam the Munday after. The 3 Sondaye after Easter at Louth. The 23 at Charyng. at Ipswyche. at Amtyll. at Hunigam. at Gylforde. The 25 at Darbe. the 26 at Tenterden.

Maye.

The 1 day at Stow the olde. at Readyng. at Maydstone. at Leceter. at chensforde. The 8 day at Beuerlie, Ascencion daye, at Byrmyngcham. at S. Edes. at Bylhops Statforde. VVytsondaye, at Kyngstone vpon Temmes. Trinitie Sundaye, at Rouel. at Crābroke. The 19 daye. the 27 daye at Lenham.

Iune.

Corpus Christi, at Couentrie, S. Edes. at Bylhop Stanforth. at Rosse. The 9 at Maydstone. The 11 at Okyngam. The 23 Shrowsburie. at S. Albons. The 24 at Cambrydge. at Glocestre. at Lyncolne. at Wynsor. Colchester. The 29 at Woller. at Hampton. at Peterborow. The 17 at Folkstone. The 24 at Harisame. The 28 at Hetcorne.

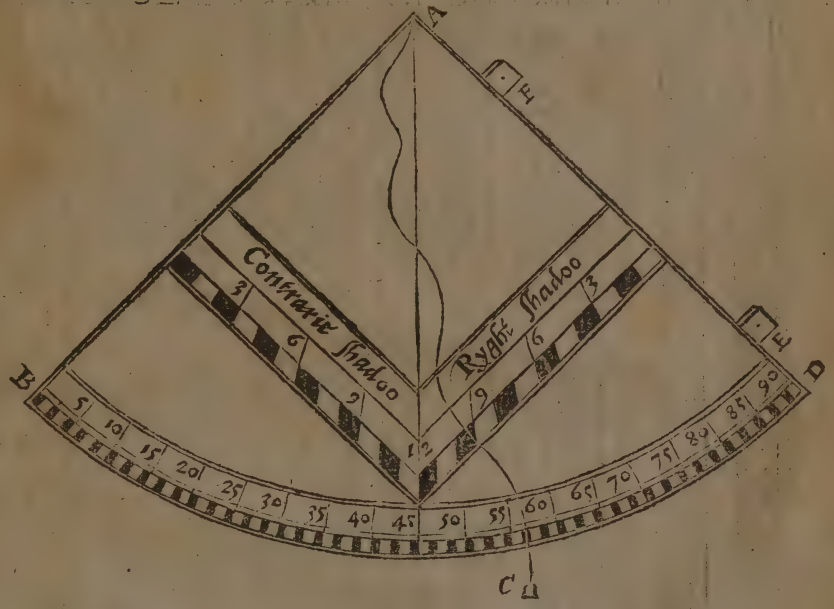
A Table

A Table contayning the Moneth, Day, and Place, of the principall Fayers of England: to be augmented at pleasure in order folowyng.

July.	The 11 day Horse fayer at Partney, at Nabor, at Felix. The 12 day at Lyd. The 15 at Pynchbake. The 17 at Wynchecome. The 20 at Arsbrydge, at Cattelby. The 22 at Marborowe, at Wynchester, at Colchester, at Tetherie. The 25 at Brystowe, at Douer, at Chylham, at Ipswyche, at Northhampton, at Darby, at S. James by London, at Readyng, at Lowth at Maelsbery.
August.	The 1 day at Feuersame, at Dōstable, at S. Edes, at Budforth at Marram Churche, at Wylbyche. The 9 at Rumney. The 10 at Bedforde, at Fernam, at Stroues, at Blakamore, S. Lau, at Wrulton. The 24 at London, at Tewrsbery, at Sudberrie, at Norwyche, at Northalertō, at Douer, at Rye. The 28 at Alhforde.
September.	The 8 day at Cambridge, at Storbridge, at London in Southwarke, at Smyde, at Recoluer, at Partny thre Lady daies. The 14 at Waltam Abbie, at Wotton vnder Hedge, at Smaldyng. The 21 at Croyden, at Hulden in Hulennelle, at S. Edmons berie, at Maulton, at S. Pues, at Haldy Lanam, at Wyltemal, at Sittingborowe, at Douer, at Elsrie. The 29 day at Canterburie.
October.	The 6 day at S. Sythes belyde Norwyche. The 13 at Grauesende, at Wynsor, at Marchefelde. The 18 at Ely, at Staneton, at Charyng. The 28 at Harforde, at Cister at Newmarket.
November.	The 2 day at Kyngstone, at Blechyngly. The 6 at Neuporte ponde, at Standly. The 11 at Douer. The 13 at S. Edmōdes bery. The 20 at Hyth. The 23 at Sandwyche. The 30 at Rochester, at Haydenhead.
Decēb.	The 29 at Canterberie. The 5 at Plucklie. The 6 at Spalding. The 7 at Sanderst.

Because I vnderstãde many are desierous how to get eratly the iust length of *Staffe* and *Squier* shadowe before treated of, vpon on leauell groundes, or other wayes whereseoeuer it be, yea without eather *Squier* or *Staffe*, I haue calculated a *Table* folowing thorowly satisfying thẽ, so that they get the heyght of the *Sunne* any waye, or as I shall now enstruct.

Behold this *Instrument* called a *Quadrant* the iust fourth part of a *Circle*, euen suche a *Circle* as I taught you before to make for the nyght *Dyal*: cõtayning the fourth part of his diuisions, that is 90 degrees, only two syghtes and a plume lyne added, to be placed at the begynning of this boke as ye may there: and here see. I haue here also put the *Scale* to the *Quadrant*, whiche serueth wel for shadowes, and as wel for heyghtes. The vse of this *Scale* is declared in my booke titled *Tectonicon*.



How by this Instrument to get the heyght of the Sunne at all tymes.

Lyfte vp hansomly your *Quadrant* the *Sunne beames* persyng the Syghtes. The *Plommet* and *Lyne* then at libertie fallyng, noteth there the degrees of heyght at that present, with the whiche shal entre this *Table* immediatly folowing, to get then and in lyke maner at all other tymes ye the iust shadowe of the *Staffe* or *Squier*.

A table

A Table generall of Shadowes, Ryght and Contrary: for euery grade of the Sunnes heyght: The thyng causing Shadowe supposed 12 partes.

Heyght of the Sunne.		Staffe. Shadow.		Heyght of the Sunne.		Staffe. Shadow.		Heyght of the Sunne.		Staffe. Shadow.	
G	G	P	M	G	G	P	M	G	G	P	M
0	90	Sha.	in.	30	60	20	47	60	30	6	56
1	89	687	34	31	59	19	58	61	29	6	39
2	88	343	43	32	58	19	12	62	28	6	23
3	87	228	59	33	57	18	29	63	27	6	7
4	86	171	37	34	56	17	47	64	26	5	51
5	85	137	10	35	55	17	8	65	25	5	36
6	84	114	10	36	54	16	30	66	24	5	21
7	83	97	49	37	53	15	52	67	23	5	6
8	82	85	28	38	52	15	21	68	22	4	51
9	81	75	46	39	51	14	49	69	21	4	36
10	80	68	3	40	50	14	18	70	20	4	22
11	79	61	44	41	49	13	48	71	19	4	8
12	78	56	27	42	48	13	20	72	18	3	54
13	77	51	59	43	47	12	52	73	17	3	40
14	76	48	8	44	46	12	26	74	16	3	26
15	75	44	47	45	45	12	0	75	15	3	13
16	74	41	51	46	44	11	35	76	14	3	0
17	73	39	15	47	43	11	11	77	13	2	46
18	72	36	54	48	42	10	48	78	12	2	32
19	71	34	51	49	41	10	26	79	11	2	20
20	70	32	58	50	40	10	4	80	10	2	7
21	69	31	16	51	39	9	43	81	9	1	54
22	68	29	42	52	38	9	22	82	8	1	41
23	67	28	16	53	37	9	3	83	7	1	28
24	66	26	57	54	36	8	43	84	6	1	16
25	65	25	44	55	35	8	24	85	5	1	3
26	64	24	37	56	34	8	6	86	4	0	50
27	63	23	33	57	33	7	48	87	3	0	38
28	62	22	34	58	32	7	30	88	2	0	25
29	61	21	40	59	31	7	13	89	1	0	12
30	60	20	47	60	30	6	56	90	0	0	0
Heyght of the Sunne.		Squier. Shadow.		Heyght of the Sunne.		Squier. Shadow.		Heyght of the Sunne.		Squier. Shadow.	

The use of this Table, and first for Staffe Shadowe.

Ensample.

I Suppose the heyght of the Sunne taken by the Quadrant 34 degrees, nowe I requyre the exacte lengthe of Staffe and Squier Shadowe. For ryght shadowe, first seke out the degrees in the left part of the Table, and vnder this tytle the heyght of the Sunne: if they be not in that lefte rowe downewardes, resorte to the next rowe and lyke tytle, vntyll ye fynde the degrees: then in ryght order toward the right hande, in the next, Columpne vnder the title of Staffe Shadow, are 17 partes and 47 minutes, your desyre.

For Squyer shadowe, tytled contrary Shadow.

SEke your degrees in the ryght parte vpwarde at this title Heyght of the Sunne, in the botome of this Table: then shal ye finde on the right hand of 34 degrees, in the next Columpne, 8 partes and 6 Minutes: that is the very length of Squier Shadowe when the Sunne is 34 degrees in heyght.

OCcasioned I cannot here omitte an other Table faythfully supputated for the Sunnes altitude, by the whiche with quicke speade the houre is knowen. This Table conduceth manyfolde wayes, yea to the Composition of diuers and many Instrumentes: as Quadrantes, Nauicles, Cylindres, Rynges, &c.

Beholde nowe it doth ensue, and also the brief vse of it.

A Table of the Sunnes altitude, for euery houre: the Pole mounted. 51. Degrees 30. Minutes, exactely calculated.

Houres before n.	12		11		10		9		8		7		6		5		4	
Houres after n.			1		2		3		4		5		6		7		8	
S.	G	S	G	G	M	G	M	G	M	G	M	G	M	G	M	G	M	G	M
	30	♋	0	62	0	59	43:	53	45	45	42	36	42:	27	23:	18	11	9	28:	1	31.
	25		5	61	54:																
	20		10	61	37:	59	21.	53	26:	45	24.	36	25	27	6	17	54.	9	9.	1	13:
	15		15	61	9:																
	10		20	60	30:	58	17.	52	28.	44	32	35	35	26	16.	17	3	8	16.	0	16:
	5		25	59	41:																
♊	0	♌	0	58	42:	56	34.	50	55:	43	6.	34	13.	24	56:	15	41:	6	50.	0	0
	25		5	57	34.																
	20		10	56	17:	54	15	48	48:	41	10:	32	22.	23	6.	13	50	4	55:	0	0
	15		15	54	52:																
	10		20	53	21:	51	26:	46	12:	38	46:	30	6.	20	52.	11	34.	2	34.	0	
	5		25	51	43:																
♌	0	♍	0	50	0	48	11	43	11.	35	58	27	27.	18	18:	8	59:	0	0		
	25		5	48	12:																
	20		10	46	20:	44	37.	39	51	32	53:	24	32.	15	27.	6	8:	0	0		
	15		15	44	25:																
	10		20	42	28:	40	51:	33	6	18	29	34:	21	24:	12	25:	3	6.	0		
	5		25	40	29:																
♍	0	♎	0	38	30	36	58	32	37.	26	7:	18	8.	9	16.	0	0				
	25		5	36	30:																
	20		10	34	32.	33	4	28	55:	22	38:	14	51:	6	7	0	0				
	15		15	32	35.																
	10		20	30	40.	29	16.	25	12	19	14:	11	38	3	2:	0					
	5		25	28	48.																
♐	0	♏	0	27	0	25	40	21	51:	15	59:	8	34.	0	6.						
	25		5	25	17.																
	20		10	23	39.	22	22.	18	42:	13	1:	5	45.	0	0						
	15		15	22	8.																
	10		20	20	43.	19	29	15	55.	10	23:	3	17.	0							
	5		25	19	26:																
♒	0	♐	0	18	18.	17	6	13	33:	8	13:	1	15.	0							
	25		5	17	19.																
	20		10	16	30.	14	48:	11	55.	6	36:	0	0								
	15		15	15	51.																
	10		20	15	23.	14	13.	10	52:	5	36.	0									
	5		25	15	6.																
			0	15	0.	13	51	10	30.	5	15.										

When the Sunne entreth the 22 Grade of ♋, he toucheth our Horizon at 4. in the morning. Entring the 22 of ♑, he ryseth at 8. in the first of ♉, at 5. In the first of ♏, at 7. Note in all my tables, one pricke following the Minutes, diminisheth two augmenteth summe finale quantitie.

Multeplie the age of the Moone by 4, diuide by 10, the Quotient sheweth the Signes that the Moone differeth from the Sunne. The remayne augmented by 3 bryngeth degrees to be added. Ye must put these Signes and degrees to the place of the Sunne, the product thē: I meane the Increase or ende of all these Signes and degrees, in order coūted from the Sunne declare: the place of the Mone in the Zodiacke.

The place of the Sunne in the Zodiacke is is thus fonde.

FIrst knowe that the 11 day of Ianuary, the Sunne is entred ♒. The 10 day of Februarie ♓. The 11 of Marche ♈. The 11 of Aprile ♉. The 12 of May ♊. The 12 of Iune ♋. The 14 of Iuly ♌. The 14 of August ♍. The 14 of September ♎. The 14 of October ♏. The 13 of Nouember ♐. The 12 of December ♑.

This knowen, the place of the Sunne is well founde, adding for euery day past any entrey 1 degre.

Ensample.

I Require the place of the Sunne the 21 daye of August. I fynde that the Sunne is entred in my the 14 daye of the Moneth. I must for euery day past any entrey adde 1 degre. There are 7 dayes past that entrey, then I conclude the Sunne ready to haue place in the 8 degree of my the 21 of August.

To knowe how long the Moone shyneth.

FOr her shyning, in the encrease multiplie the age of the Mone by 4. In the Wane augment the rest of the age which she lacketh of 30 by 4. and diuide by 5 the Quotient sheweth the houres: the remaynes if there be any, multiplied by 12 bryngeth minutes to be added.

How the mouable feastes are founde readily.

Seke the chaunge of the Mone in *February*, for that yeare ye require these *Mouable feastes*. Note what daye it falleth on, the nert tuesday is *Shrouetuesday*. But if the chaunge be on tuesdaye, then the nert tuesday ensuyng is it. The nert Sonday is the first *Sonday of Lent*. Syx Sondayes after is *Easter day*. Adde 35 dayes or 5 wekes to *Easter daye*, ye haue *Rogatiõ Sonday*. To that adde 4 daies so haue ye *Ascensiõ day*. Then haue ye 10. days to VVhitsontyde. Seuen days after is *Trinitie Sonday*. And foure dayes after is *Corpus Christi day*.

VVithout Tables at all tymes to know the Tydes.

Learne as is declared the age of the Moone, also remember the houre of the full, or chaunge, for youre place or poynte whiche doeth neuer varie: these knowen worke thus.

Ensample.

VVhen the Moone is 10 dayes olde, I desier to knowe at what of the clocke it is full Sea at London bridge. Multiplie 10 by 48 so haue ye 480: diuide that by 60, ye haue 8 houres. To that adde 3 whiche is the houre of the full or chaunge appoynted for that place. All then cummeth vnto 11 of the clocke hyghe water at London bryge. If any thyng remayne they are *Minutes* of an houre. If the houres amounte aboue 12, cast the twelues away, the reste is your requeste.

FINIS.

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Anno Salutis.
1556.
Mense Septemb.